

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. <div style="text-align: center; font-weight: bold;">30-025-53818</div>
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish 13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: LOT 4 / 607 FNL / 1134 FWL / TWSP: 22S / RANGE: 32E / SECTION: 4 / LAT: 32.4262505 / LONG: -103.6846198 (TVD: 0 feet, MD: 0 feet)
PPP: LOT 4 / 100 FNL / 530 FWL / TWSP: 22S / RANGE: 32E / SECTION: 4 / LAT: 32.4276379 / LONG: -103.6865809 (TVD: 10780 feet, MD: 11208 feet)
PPP: SWNW / 1308 FNL / 528 FWL / TWSP: 22S / RANGE: 32E / SECTION: 4 / LAT: 32.4243176 / LONG: -103.6865742 (TVD: 10788 feet, MD: 12417 feet)
PPP: NWSW / 2626 FNL / 526 FWL / TWSP: 22S / RANGE: 32E / SECTION: 4 / LAT: 32.4206939 / LONG: -103.686567 (TVD: 10797 feet, MD: 13735 feet)
PPP: NWNW / 0 FNL / 527 FWL / TWSP: 22S / RANGE: 32E / SECTION: 9 / LAT: 32.4134266 / LONG: -103.6865524 (TVD: 10814 feet, MD: 16379 feet)
BHL: SWSW / 20 FSL / 530 FWL / TWSP: 22S / RANGE: 32E / SECTION: 9 / LAT: 32.3989659 / LONG: -103.6865235 (TVD: 10850 feet, MD: 21640 feet)

BLM Point of Contact

Name: TENILLE C MOLINA
Title: Land Law Examiner
Phone: (575) 234-2224
Email: TCMOLINA@BLM.GOV

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
	Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal		
		<input type="checkbox"/> Amended Report		
		<input type="checkbox"/> As Drilled		

WELL LOCATION INFORMATION

API Number 30-025-53818	Pool Code 5695	Pool Name BILBREY BASIN; BONE SPRING
Property Code	Property Name GOLD LOG 4_9 FED COM	Well Number 22H
OGRID No. 16696	Operator Name OXY USA INC.	Ground Level Elevation 3795'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL L4	Section 4	Township 22S	Range 32E	Lot	Ft. from N/S 607' FNL	Ft. from E/W 1134' FWL	Latitude 32.42625054	Longitude -103.68461986	County LEA
-----------------	---------------------	------------------------	---------------------	-----	---------------------------------	----------------------------------	--------------------------------	-----------------------------------	----------------------

Bottom Hole Location

UL M	Section 9	Township 22S	Range 32E	Lot	Ft. from N/S 20' FSL	Ft. from E/W 530' FWL	Latitude 32.39896594	Longitude -103.68652350	County LEA
----------------	---------------------	------------------------	---------------------	-----	--------------------------------	---------------------------------	--------------------------------	-----------------------------------	----------------------

Dedicated Acres 1279.16	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers. R-22684			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL D	Section 33	Township 21S	Range 32E	Lot	Ft. from N/S 300' FSL	Ft. from E/W 530' FWL	Latitude 32.42873747	Longitude -103.68658236	County LEA
----------------	----------------------	------------------------	---------------------	-----	---------------------------------	---------------------------------	--------------------------------	-----------------------------------	----------------------


First Take Point (FTP)

UL L4	Section 4	Township 22S	Range 32E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 530' FWL	Latitude 32.42763799	Longitude -103.68658094	County LEA
-----------------	---------------------	------------------------	---------------------	-----	---------------------------------	---------------------------------	--------------------------------	-----------------------------------	----------------------

Last Take Point (LTP)

UL M	Section 9	Township 22S	Range 32E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 530' FWL	Latitude 32.39918583	Longitude -103.68652382	County LEA
----------------	---------------------	------------------------	---------------------	-----	---------------------------------	---------------------------------	--------------------------------	-----------------------------------	----------------------

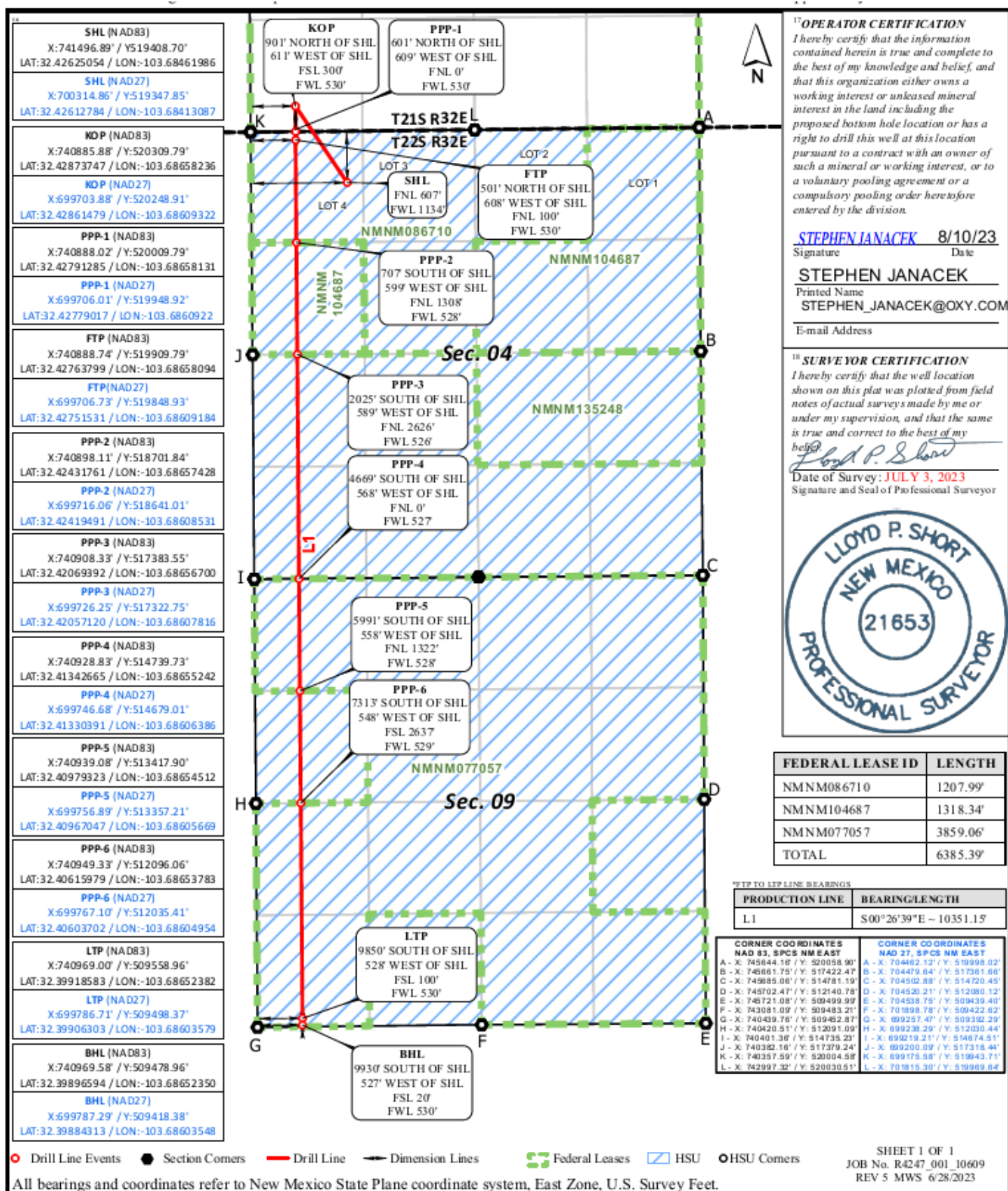
Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
---	--	-------------------------

OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division. Melissa Guidry 11/01/24		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. <div style="border: 1px solid black; padding: 5px; text-align: center;"> <small>1. SURVEYOR CERTIFICATION</small> <small>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</small> <small><i>Lloyd P. Short</i></small> <small>Date of Survey: JULY 3, 2023</small> <small>Signature and Seal of Professional Surveyor</small> </div> 	
Signature	Date	Signature and Seal of Professional Surveyor	
Printed Name melissa_guidry@oxy.com		Certificate Number	Date of Survey July 3, 2023
Email Address			

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: OXY USA INC. **OGRID:** 16696 **Date:** 0 2/ 2 2/ 2 3

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
SEE ATTACHED						

IV. Central Delivery Point Name: LOST TANK 6 [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
SEE ATTACHED						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

Page 8

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <i>Roni Mathew</i>
Printed Name: Roni Mathew
Title: Regulatory Advisor
E-mail Address: roni_mathew@oxy.com
Date: 02/22/2023
Phone: 713-215-7827
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
GOLD LOG 4_9 FED COM 11H	Pending	D-4-22S-32E	396 FNL 1076 FWL	1500	3500	4630
GOLD LOG 4_9 FED COM 12H	Pending	D-4-22S-32E	397 FNL 1106 FWL	1500	3500	4630
GOLD LOG 4_9 FED COM 13H	Pending	D-4-22S-32E	397 FNL 1136 FWL	1500	3500	4630
GOLD LOG 4_9 FED COM 14H	Pending	B-4-22S-32E	394 FNL 1825 FEL	1500	3500	4630
GOLD LOG 4_9 FED COM 15H	Pending	B-4-22S-32E	394 FNL 1795 FEL	1500	3500	4630
GOLD LOG 4_9 FED COM 16H	Pending	B-4-22S-32E	394 FNL 1765 FEL	1500	3500	4630
GOLD LOG 4_9 FED COM 1H	Pending	D-4-22S-32E	398 FNL 1196 FWL	1255	2700	4500
GOLD LOG 4_9 FED COM 21H	Pending	D-4-22S-32E	607 FNL 1104 FWL	1460	1667	4667
GOLD LOG 4_9 FED COM 22H	Pending	D-4-22S-32E	607 FNL 1134 FWL	1460	1667	4667
GOLD LOG 4_9 FED COM 23H	Pending	D-4-22S-32E	607 FNL 1164 FWL	1460	1667	4667
GOLD LOG 4_9 FED COM 24H	Pending	B-4-22S-32E	604 FNL 1796 FEL	1460	1667	4667
GOLD LOG 4_9 FED COM 25H	Pending	B-4-22S-32E	604 FNL 1766 FEL	1460	1667	4667
GOLD LOG 4_9 FED COM 26H	Pending	B-4-22S-32E	605 FNL 1736 FEL	1460	1667	4667
GOLD LOG 4_9 FED COM 2H	Pending	D-4-22S-32E	398 FNL 1226 FWL	1255	2700	4500
GOLD LOG 4_9 FED COM 3H	Pending	B-4-22S-32E	395 FNL 1705 FEL	1255	2700	4500
GOLD LOG 4_9 FED COM 4H	Pending	B-4-22S-32E	395 FNL 1675 FEL	1255	2700	4500
GOLD LOG 4_9 FED COM 71H	Pending	D-4-22S-32E	399 FNL 1286 FWL	1800	2750	5000
GOLD LOG 4_9 FED COM 72H	Pending	D-4-22S-32E	399 FNL 1316 FWL	1800	2750	5000
GOLD LOG 4_9 FED COM 73H	Pending	B-4-22S-32E	396 FNL 1615 FEL	1800	2750	5000
GOLD LOG 4_9 FED COM 74H	Pending	B-4-22S-32E	396 FNL 1585 FEL	1800	2750	5000
GOLD LOG 4_9 FED COM 311H	Pending	D-4-22S-32E	608 FNL 1254 FWL	3000	5000	7500
GOLD LOG 4_9 FED COM 31H	Pending	D-4-22S-32E	608 FNL 1224 FWL	3000	5000	7500
GOLD LOG 4_9 FED COM 32H	Pending	D-4-22S-32E	608 FNL 1284 FWL	3000	5000	7500
GOLD LOG 4_9 FED COM 33H	Pending	D-4-22S-32E	609 FNL 1314 FWL	3000	5000	7500
GOLD LOG 4_9 FED COM 312H	Pending	B-4-22S-32E	605 FNL 1676 FEL	3000	5000	7500
GOLD LOG 4_9 FED COM 313H	Pending	B-4-22S-32E	606 FNL 1616 FEL	3000	5000	7500
GOLD LOG 4_9 FED COM 34H	Pending	B-4-22S-32E	606 FNL 1646 FEL	3000	5000	7500
GOLD LOG 4_9 FED COM 35H	Pending	B-4-22S-32E	606 FNL 1586 FEL	3000	5000	7500

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
GOLD LOG 4_9 FED COM 11H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 12H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 13H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 14H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 15H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 16H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 1H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 21H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 22H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 23H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 24H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 25H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 26H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 2H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 3H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 4H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 71H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 72H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 73H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 74H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 311H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 31H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 32H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 33H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 312H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 313H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 34H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 35H	Pending	TBD	TBD	TBD	TBD	TBD

Central Delivery Point Name: (Lost Tank 6)

Part VI. Separation Equipment

Operator will size the flowback separator to handle 11,000 Bbls of fluid and 6-10MMscfd which is more than the expected peak rates for these wells. Each separator is rated to 1440psig, and pressure control valves and automated communication will cause the wells to shut in in the event of an upset at the facility, therefore no gas will be flared on pad during an upset. Current Oxy practices avoid use of flare or venting on pad, therefore if there is an upset or emergency condition at the facility, the wells will immediately shut down, and reassume production once the condition has cleared.

VII. Operational Practices

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility and fluids will be sent to the facility after initial flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility will be dedicated to MarkWest Energy West Texas Gas Company LLC ("MarkWest") and will be connected to MarkWest's high pressure gathering system located in Lea and Eddy Counties, New Mexico and Loving and Culberson Counties, TX. OXY USA INC. ("OXY") will provide (periodically) to MarkWest a production forecast for wells being sent to their system. In addition, OXY and MarkWest will have periodic conference calls to discuss changes to production forecasts arising out of changes to drilling and completion schedules. Gas from these wells will be processed at MarWest's Preakness and Tornado Processing Plants located in Culberson County, TX and Loving County, Texas respectively. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on MarkWest's system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

VIII. Best Management Practices

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

Power Generation – On lease

Only a portion of gas is consumed operating the generator, remainder of gas will be flared

Compressed Natural Gas – On lease

Gas flared would be minimal, but might be uneconomical to operate when gas volume declines

NGL Removal – On lease

Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Operator Certification Data Report

11/01/2024

Operator

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: STEPHEN JANACEK

Signed on: 10/14/2024

Title: Regulatory Engineer

Street Address: 5 Greenway Plaza, Suite 110

City: Houston

State: TX

Zip: 77046

Phone: (713)497-2417

Email address: stephen_janacek@oxy.com

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Application Data

11/01/2024

APD ID: 10400093859

Submission Date: 08/23/2023

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Section 1 - General

APD ID: 10400093859

Tie to previous NOS? N

Submission Date: 08/23/2023

BLM Office: Carlsbad

User: STEPHEN JANACEK

Title: Regulatory Engineer

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM86710

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? N

Permitting Agent? NO

APD Operator: OXY USA INCORPORATED

Operator letter of

Operator Info

Operator Organization Name: OXY USA INCORPORATED

Operator Address: P.O. BOX 1002

Zip: 93276-1002

Operator PO Box:

Operator City: TUPMAN

State: CA

Operator Phone: (661)763-6046

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BILBREY BASIN

Pool Name: BONE SPRING

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL,POTASH

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: GOLD LOG 4_9 FEDERAL COM

Number: PAD 0401

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 26 Miles

Distance to nearest well: 30 FT

Distance to lease line: 607 FT

Reservoir well spacing assigned acres Measurement: 1280 Acres

Well plat: GoldLog4_9FedCom22H_C102_20230810082743.pdf

GoldLog4_9FedCom22H_SitePlan_20230810082743.pdf

Well work start Date: 06/01/2024

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	607	FNL	1134	FWL	22S	32E	4	Lot 4	32.4262505	- 103.6846198	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 86710	3795	0	0	N
KOP Leg #1	300	FSL	530	FWL	21S	32E	33	Aliquot SWS W	32.4287374	- 103.6865823	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 86710	- 6326	10223	10121	N

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-1	100	FNL	530	FW L	22S	32E	4	Lot 4	32.4276379	- 103.6865809	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 86710	- 6985	11208	10780	Y
PPP Leg #1-2	1308	FNL	528	FW L	22S	32E	4	Aliquot SWN W	32.4243176	- 103.6865742	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 104687	- 6993	12417	10788	Y
PPP Leg #1-3	2626	FNL	526	FW L	22S	32E	4	Aliquot NWS W	32.4206939	- 103.686567	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 104687	- 7002	13735	10797	Y
PPP Leg #1-4	0	FNL	527	FW L	22S	32E	9	Aliquot NWN W	32.4134266	- 103.6865524	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 77057	- 7019	16379	10814	Y
EXIT Leg #1	100	FSL	530	FW L	22S	32E	9	Aliquot SWS W	32.3991858	- 103.6865238	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 77057	- 7055	21560	10850	Y
BHL Leg #1	20	FSL	530	FW L	22S	32E	9	Aliquot SWS W	32.3989659	- 103.6865235	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 77057	- 7055	21640	10850	Y

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

☐ AMENDED REPORT

30-025- ¹ API Number		5695 ² Pool Code	BILBREY BASIN, BONE SPRING ³ Pool Name	
⁴ Property Code		GOLD LOG 4 ⁵ Property Name		⁶ Well Number
		9 FED COM		22H
⁷ OGRID No. 16696		⁸ Operator Name OXY USA INC.		⁹ Elevation 3795'

UL or lot no. L 4	Section 4	Township 22S	Range 32E	Lot Idn	Feet from the 607'	North/South line North	Feet from the 1134'	East/West line West	County LEA
----------------------	--------------	-----------------	--------------	---------	-----------------------	---------------------------	------------------------	------------------------	---------------

UL or lot no. M	Section 9	Township 22S	Range 32E	Lot Idn	Feet from the 20'	North/South line South	Feet from the 530'	East/West line West	County LEA
¹² Dedicated Acres 1279.16		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

16

SHL (NAD83)
X: 741496.89 / Y: 519408.70
LAT: 32.42625054 / LON: -103.68461986
SHL (NAD27)
X: 700314.86 / Y: 519347.85
LAT: 32.42612784 / LON: -103.68413087

KOP (NAD83)
X: 740885.88 / Y: 520309.79
LAT: 32.42873747 / LON: -103.68658236
KOP (NAD27)
X: 699703.88 / Y: 520248.91
LAT: 32.42861479 / LON: -103.68609322

PPP-1 (NAD83)
X: 740888.02 / Y: 520009.79
LAT: 32.42791285 / LON: -103.68658131
PPP-1 (NAD27)
X: 699706.01 / Y: 519948.92
LAT: 32.42779017 / LON: -103.6860922

FTP (NAD83)
X: 740888.74 / Y: 519909.79
LAT: 32.42763799 / LON: -103.68658094
FTP (NAD27)
X: 699706.73 / Y: 519848.93
LAT: 32.42751531 / LON: -103.68609184

PPP-2 (NAD83)
X: 740898.11 / Y: 518701.84
LAT: 32.42431761 / LON: -103.68657428
PPP-2 (NAD27)
X: 699716.06 / Y: 518641.01
LAT: 32.42419491 / LON: -103.68608531

PPP-3 (NAD83)
X: 740908.33 / Y: 517383.55
LAT: 32.42069392 / LON: -103.68656700
PPP-3 (NAD27)
X: 699726.25 / Y: 517322.75
LAT: 32.42057120 / LON: -103.68607816

PPP-4 (NAD83)
X: 740928.83 / Y: 514739.73
LAT: 32.41342665 / LON: -103.68655242
PPP-4 (NAD27)
X: 699746.68 / Y: 514679.01
LAT: 32.41330391 / LON: -103.68606386

PPP-5 (NAD83)
X: 740939.08 / Y: 513417.90
LAT: 32.40979323 / LON: -103.68654512
PPP-5 (NAD27)
X: 699756.89 / Y: 513357.21
LAT: 32.40967047 / LON: -103.68605669

PPP-6 (NAD83)
X: 740949.33 / Y: 512096.06
LAT: 32.40615979 / LON: -103.68653783
PPP-6 (NAD27)
X: 699767.10 / Y: 512035.41
LAT: 32.40603702 / LON: -103.68604954

LTP (NAD83)
X: 740969.00 / Y: 509558.96
LAT: 32.39918583 / LON: -103.68652382
LTP (NAD27)
X: 699786.71 / Y: 509498.37
LAT: 32.39906303 / LON: -103.68603579

BHL (NAD83)
X: 740969.58 / Y: 509478.96
LAT: 32.39896594 / LON: -103.68652350
BHL (NAD27)
X: 699787.29 / Y: 509418.38
LAT: 32.39884313 / LON: -103.68603548

17

OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

STEPHEN JANACEK 8/10/23
Signature Date
STEPHEN JANACEK
Printed Name
STEPHEN_JANACEK@OXY.COM
E-mail Address

18

SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Lloyd P. Short
Date of Survey: **JULY 3, 2023**
Signature and Seal of Professional Surveyor

LLOYD P. SHORT
NEW MEXICO
21653
PROFESSIONAL SURVEYOR

FEDERAL LEASE ID LENGTH

FEDERAL LEASE ID	LENGTH
NMNM086710	1207.99'
NMNM104687	1318.34'
NMNM077057	3859.06'
TOTAL	6385.39'

***FTP TO LTP LINE BEARINGS**

PRODUCTION LINE	BEARING/LENGTH
L1	S00°26'39"E ~ 10351.15'

CORNER COORDINATES NAD 83, SPCS NM EAST

A - X: 745644.16 / Y: 520058.90
B - X: 745661.75 / Y: 517422.47
C - X: 745685.06 / Y: 514781.19
D - X: 745702.47 / Y: 512140.78
E - X: 745721.08 / Y: 509498.99
F - X: 743081.09 / Y: 509483.21
G - X: 740439.76 / Y: 509452.87
H - X: 740420.51 / Y: 512091.09
I - X: 740401.36 / Y: 514735.23
J - X: 740382.16 / Y: 517379.24
K - X: 740357.59 / Y: 520004.58
L - X: 742997.32 / Y: 520030.51

CORNER COORDINATES NAD 27, SPCS NM EAST

A - X: 704462.12 / Y: 519998.02
B - X: 704479.64 / Y: 517361.66
C - X: 704502.88 / Y: 514720.45
D - X: 704520.21 / Y: 512080.12
E - X: 704538.75 / Y: 509439.40
F - X: 701898.78 / Y: 509422.62
G - X: 699257.47 / Y: 509392.29
H - X: 699238.29 / Y: 512030.44
I - X: 699219.21 / Y: 514674.51
J - X: 699200.09 / Y: 517318.44
K - X: 699175.58 / Y: 519943.71
L - X: 701815.30 / Y: 519969.64

16

SHL (NAD83)
X: 741496.89 / Y: 519408.70
LAT: 32.42625054 / LON: -103.68461986
SHL (NAD27)
X: 700314.86 / Y: 519347.85
LAT: 32.42612784 / LON: -103.68413087

KOP (NAD83)
X: 740885.88 / Y: 520309.79
LAT: 32.42873747 / LON: -103.68658236
KOP (NAD27)
X: 699703.88 / Y: 520248.91
LAT: 32.42861479 / LON: -103.68609322

PPP-1 (NAD83)
X: 740888.02 / Y: 520009.79
LAT: 32.42791285 / LON: -103.68658131
PPP-1 (NAD27)
X: 699706.01 / Y: 519948.92
LAT: 32.42779017 / LON: -103.6860922

FTP (NAD83)
X: 740888.74 / Y: 519909.79
LAT: 32.42763799 / LON: -103.68658094
FTP (NAD27)
X: 699706.73 / Y: 519848.93
LAT: 32.42751531 / LON: -103.68609184

PPP-2 (NAD83)
X: 740898.11 / Y: 518701.84
LAT: 32.42431761 / LON: -103.68657428
PPP-2 (NAD27)
X: 699716.06 / Y: 518641.01
LAT: 32.42419491 / LON: -103.68608531

PPP-3 (NAD83)
X: 740908.33 / Y: 517383.55
LAT: 32.42069392 / LON: -103.68656700
PPP-3 (NAD27)
X: 699726.25 / Y: 517322.75
LAT: 32.42057120 / LON: -103.68607816

PPP-4 (NAD83)
X: 740928.83 / Y: 514739.73
LAT: 32.41342665 / LON: -103.68655242
PPP-4 (NAD27)
X: 699746.68 / Y: 514679.01
LAT: 32.41330391 / LON: -103.68606386

PPP-5 (NAD83)
X: 740939.08 / Y: 513417.90
LAT: 32.40979323 / LON: -103.68654512
PPP-5 (NAD27)
X: 699756.89 / Y: 513357.21
LAT: 32.4096704

A circular professional seal for a surveyor. The outer ring contains the text "LLOYD P. SHORT" at the top and "PROFESSIONAL SURVEYOR" at the bottom. The inner ring contains the text "NEW MEXICO". The center of the seal contains the license number "21653".

FEDERAL LEASE ID	LENGTH
NMNM086710	1207.99'
NMNM104687	1318.34'
NMNM077057	3859.06'
TOTAL	6385.39'

PRODUCTION LINE	BEARING/LENGTH
L1	S00°26'39"E ~ 10351.15'

CORNOR COORDINATES		CORNOR COORDINATES	
NAD 83, SPCS NM EAST		NAD 27, SPCS NM EAST	
A - X: 745664.16 / Y: 520058.90'		A - X: 704462.12 / Y: 519998.02'	
B - X: 745661.75 / Y: 517422.47'		B - X: 704479.16 / Y: 517381.66'	
C - X: 745685.08 / Y: 514781.19'		C - X: 704502.88 / Y: 514720.45'	
D - X: 745685.08 / Y: 514781.19'		D - X: 704502.88 / Y: 514720.45'	
E - X: 745721.08 / Y: 509499.99'		E - X: 704538.75 / Y: 509349.40'	
F - X: 743081.09 / Y: 509483.21'		F - X: 701898.78 / Y: 509422.62'	
G - X: 704039.76 / Y: 509452.87'		G - X: 699257.47 / Y: 509392.29'	
H - X: 704020.51 / Y: 512091.09'		H - X: 699238.29 / Y: 512030.44'	
I - X: 704039.76 / Y: 512091.09'		I - X: 699238.29 / Y: 512030.44'	
J - X: 704031.16 / Y: 517379.24'		J - X: 699200.09 / Y: 517318.44'	
K - X: 704037.59 / Y: 520054.58'		K - X: 699175.58 / Y: 519943.71'	
L - X: 742997.32 / Y: 520030.51'		L - X: 701815.30 / Y: 519969.64'	

 Drill Line Events
  Section Corners
  Drill Line
  Dimension Lines
  Federal Leases
  HSU
  HSU Corners

All bearings and coordinates refer to New Mexico State Plane coordinate system, East Zone, U.S. Survey Feet.

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977749 Convergence Angle: 0.349161°

SHEET 1 OF 1
JOB No. R4247_001_10609
REV 5 MWS 6/28/2023



SITE PLAN

LSTTNK_T22SR32E_0401
SEC. 4 TWP. 22-S RGE. 32-E
SURVEY: N.M.P.M.
COUNTY: LEA

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

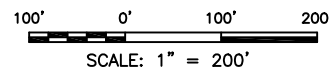
FAA PERMIT NEEDED: NO

TANK BATTERY

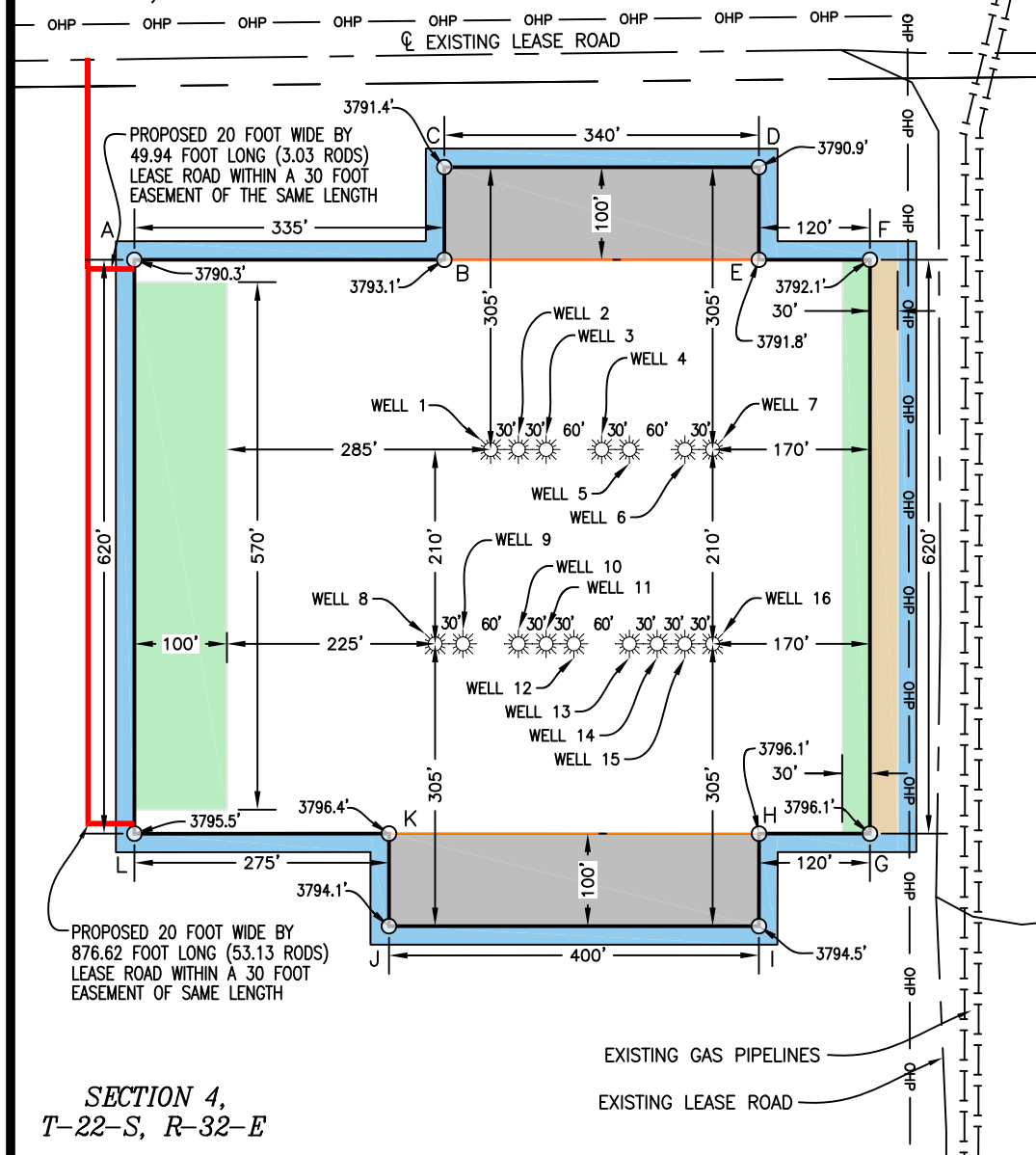
RECLAMATION

30' TOP SOIL

20' DISTURBANCE AREA



SECTION 33,
T-21-S, R-32-E



SECTION 4,
T-22-S, R-32-E

04/12/2022	10/10/2022
DATE SURVEYED	DATE DRAWN

2	10/10/2022	ANC
REV.	DATE	BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977749 CONVERGENCE ANGLE OF 0.34916111°)

LEGEND

LEGEND				
— — — — —	EXISTING ROAD	— — — — —	OHP	OVERHEAD POWER
— — — — —	PROPOSED ROAD	— X — X —	FENCE	
— — — — —	SURFACE SITE EDGE	— — — — —	SECTION LINE	
— — — — —	EXIST. PIPELINE	— — — — —	PROPERTY LINE	
		— — — — —	W	WATER LINE
		— — — — —	SWD	SALT WATER LINE

MONUMENT QUARTER SPLIT

OCTOBER 26, 2022

LLOYD P. SHORT 21653



PREPARED BY:
R-SQUARED GLOBAL, LLC
510 TRENTON ST. UNIT B
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. R4247_001
SHEET 1 OF 2



SITE PLAN

LSTTNK T22SR32E 0401
 SEC. 4 TWP. 22-S RGE. 32-E
 SURVEY: N.M.P.M.
 COUNTY: LEA
 OPERATOR: OXY USA, INC.
 U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.
 FAA PERMIT NEEDED: NO

WELL 1
 GOLD LOG 4.9 FED COM 11H
 OXY USA, INC.
 396' FNL 1076' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741436.89' / Y:519618.70'
 LAT:32.42682875N / LON:103.68481018W
 NAD 27, SPCS NM EAST
 X:7000254.87' / Y:519557.84'
 LAT:32.42670606N / LON:103.68432116W
 ELEVATION = 3795'

WELL 2
 GOLD LOG 4.9 FED COM 12H
 OXY USA, INC.
 397' FNL 1106' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741466.89' / Y:519618.70'
 LAT:32.42682825N / LON:103.68471295W
 NAD 27, SPCS NM EAST
 X:700284.87' / Y:519557.84'
 LAT:32.42670556N / LON:103.68422394W
 ELEVATION = 3795'

WELL 3
 GOLD LOG 4.9 FED COM 13H
 OXY USA, INC.
 397' FNL 1136' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741496.89' / Y:519618.70'
 LAT:32.42682775N / LON:103.68461573W
 NAD 27, SPCS NM EAST
 X:700314.87' / Y:519557.84'
 LAT:32.42670506N / LON:103.68412672W
 ELEVATION = 3794'

WELL 4
 GOLD LOG 4.9 FED COM 1H
 OXY USA, INC.
 398' FNL 1196' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741556.89' / Y:519618.70'
 LAT:32.42682675N / LON:103.68442128W
 NAD 27, SPCS NM EAST
 X:700374.87' / Y:519557.84'
 LAT:32.42670405N / LON:103.68393228W
 ELEVATION = 3797'

WELL 5
 GOLD LOG 4.9 FED COM 2H
 OXY USA, INC.
 398' FNL 1226' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741586.89' / Y:519618.70'
 LAT:32.42682625N / LON:103.68432405W
 NAD 27, SPCS NM EAST
 X:700404.87' / Y:519557.84'
 LAT:32.42670355N / LON:103.6833506W
 ELEVATION = 3795'

WELL 6
 GOLD LOG 4.9 FED COM 71H
 OXY USA, INC.
 399' FNL 1286' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741646.89' / Y:519618.70'
 LAT:32.42682525N / LON:103.68412960W
 NAD 27, SPCS NM EAST
 X:700464.87' / Y:519557.84'
 LAT:32.42670255N / LON:103.68364061W
 ELEVATION = 3797'

WELL 7
 GOLD LOG 4.9 FED COM 72H
 OXY USA, INC.
 399' FNL 1316' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741676.89' / Y:519618.70'
 LAT:32.42682475N / LON:103.68403238W
 NAD 27, SPCS NM EAST
 X:700494.87' / Y:519557.84'
 LAT:32.42670205N / LON:103.68354339W
 ELEVATION = 3797'

WELL 8
 GOLD LOG 4.9 FED COM 41H
 OXY USA, INC.
 606' FNL 1014' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741376.89' / Y:519408.70'
 LAT:32.42625254N / LON:103.68500876W
 NAD 27, SPCS NM EAST
 X:700194.87' / Y:519347.85'
 LAT:32.42612984N / LON:103.68451976W
 ELEVATION = 3797'

WELL 9
 GOLD LOG 4.9 FED COM 42H
 OXY USA, INC.
 606' FNL 1044' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741406.89' / Y:519408.70'
 LAT:32.42625204N / LON:103.68491153W
 NAD 27, SPCS NM EAST
 X:700224.87' / Y:519347.85'
 LAT:32.42612334N / LON:103.68442254W
 ELEVATION = 3797'

WELL 10
 GOLD LOG 4.9 FED COM 21H
 OXY USA, INC.
 607' FNL 1104' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741466.89' / Y:519408.70'
 LAT:32.42625104N / LON:103.68471708W
 NAD 27, SPCS NM EAST
 X:700284.86' / Y:519347.85'
 LAT:32.42612834N / LON:103.68422810W
 ELEVATION = 3794'

WELL 11
 GOLD LOG 4.9 FED COM 22H
 OXY USA, INC.
 607' FNL 1134' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741496.89' / Y:519408.70'
 LAT:32.42625054N / LON:103.68461986W
 NAD 27, SPCS NM EAST
 X:700314.86' / Y:519347.85'
 LAT:32.42612784N / LON:103.68413087W
 ELEVATION = 3797.5'

WELL 12
 GOLD LOG 4.9 FED COM 23H
 OXY USA, INC.
 607' FNL 1164' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741526.89' / Y:519408.70'
 LAT:32.42625004N / LON:103.68452264W
 NAD 27, SPCS NM EAST
 X:700344.86' / Y:519347.85'
 LAT:32.42612734N / LON:103.68403365W
 ELEVATION = 3797'

WELL 13
 GOLD LOG 4.9 FED COM 31H
 OXY USA, INC.
 608' FNL 1224' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741586.89' / Y:519408.70'
 LAT:32.42624904N / LON:103.68432819W
 NAD 27, SPCS NM EAST
 X:700404.86' / Y:519347.85'
 LAT:32.42612634N / LON:103.68383921W
 ELEVATION = 3797'

WELL 14
 GOLD LOG 4.9 FED COM 311H
 OXY USA, INC.
 608' FNL 1254' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741616.89' / Y:519408.70'
 LAT:32.42624854N / LON:103.68423096W
 NAD 27, SPCS NM EAST
 X:700434.86' / Y:519347.85'
 LAT:32.42612583N / LON:103.68374200W
 ELEVATION = 3797'

WELL 15
 GOLD LOG 4.9 FED COM 32H
 OXY USA, INC.
 608' FNL 1284' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741646.89' / Y:519408.70'
 LAT:32.42624803N / LON:103.68413374W
 NAD 27, SPCS NM EAST
 X:700464.86' / Y:519347.85'
 LAT:32.42612533N / LON:103.68364477W
 ELEVATION = 3797'

WELL 16
 GOLD LOG 4.9 FED COM 33H
 OXY USA, INC.
 609' FNL 1314' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741676.89' / Y:519408.70'
 LAT:32.42624753N / LON:103.68403652W
 NAD 27, SPCS NM EAST
 X:700494.86' / Y:519347.85'
 LAT:32.42612483N / LON:103.68354755W
 ELEVATION = 3796'

04/12/2022	10/10/2022
DATE SURVEYED	DATE DRAWN

2	10/10/2022	ANC
REV.	DATE	BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977749 CONVERGENCE ANGLE OF 0.34916111°)

LEGEND			
—	EXISTING ROAD	— x —	OHP OVERHEAD POWER
—	PROPOSED ROAD	—	FENCE
—	SURFACE SITE EDGE	—	SECTION LINE
—	EXIST. PIPELINE	—	PROPERTY LINE
—		—	WATER LINE
—		—	SALT WATER LINE
●	MONUMENT	●	QUARTER SPLIT

OCTOBER 26, 2022

LLOYD P. SHORT 21653



PREPARED BY:
 R-SQUARED GLOBAL, LLC
 510 TRENTON ST. UNIT B
 WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. R4247_001
 SHEET 2 OF 2



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

11/01/2024

APD ID: 10400093859

Submission Date: 08/23/2023

Highlighted data
reflects the most
recent changes

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14419906	RUSTLER	3797	969	969	ANHYDRITE, DOLOMITE, SHALE	USEABLE WATER	N
14419905	SALADO	2636	1161	1161	ANHYDRITE, DOLOMITE, HALITE, SHALE	OTHER : SALT	N
14419903	CASTILE	1187	2610	2610	ANHYDRITE	OTHER : SALT	N
14419907	DELAWARE	-998	4795	4815	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : OIL/GAS/BRINE	Y
14419908	BELL CANYON	-1099	4896	4918	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER, USEABLE WATER : OIL/GAS/BRINE	Y
14419909	CHERRY CANYON	-1923	5720	5755	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : OIL/GAS/BRINE	Y
14419910	BRUSHY CANYON	-3152	6949	7003	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
14419904	BONE SPRING	-4974	8771	8853	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
14419895	BONE SPRING 1ST	-5996	9793	9891	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
14419896	BONE SPRING 2ND	-6651	10448	10560	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 10850

Equipment: 13-5/8" 5M Annular, Blind Ram, Double Ram

Requesting Variance? YES

Variance request: Request for the use of a flexible choke line from the BOP to Choke Manifold.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. OXY requests permission to adjust the BOP

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COMWell Number: 22H

break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. See the attached BOP Break Testing variance.

Choke Diagram Attachment:

GOLDLOG4_9FEDCOM22H_ChkManifolds_20240822093331.pdf

BOP Diagram Attachment:

GOLDLOG4_9FEDCOM22H_13inADAPT_10.75in_7.625in_10x10_20240822093339.pdf
GOLDLOG4_9FEDCOM22H_BOP_20240822093348.pdf
GOLDLOG4_9FEDCOM22H_FlexHoseCert_20240822093401.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.75	10.75	NEW	API	N	0	1029	0	1029	3797	2768	1029	J-55	45.5	BUTT	1.125	1.2	BUOY	1.4	BUOY	1.4
2	INTERMEDIATE	9.875	7.625	NEW	API	N	0	10123	0	10021		-6224	10123	HCL-80	26.4	BUTT	1.125	1.2	BUOY	1.4	BUOY	1.4
3	PRODUCTION	6.75	5.5	NEW	API	N	0	21640	0	10850		-7053	21640	P-110	20	OTHER - SPRINT SF	1.125	1.2	BUOY	1.4	BUOY	1.4

Casing Attachments

Casing ID: 1StringSURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

GoldLog4_9FedCom22H_CsgCriteria_20230822090400.pdf

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Casing Attachments

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

GoldLog4_9FedCom22H_CsgCriteria_20230822090434.pdf

Casing ID: 3StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

GoldLog4_9FedCom22H_CsgCriteria_20230822090418.pdf

GOLDLOG4_9FEDCOM22H_VAM_SPRINT_SF_5.5in_20ppf_P110RY_20240822093540.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1029	861	1.33	14.8	1145	100	CI C	Accelerator

INTERMEDIATE	Lead	2	0	7253	1118	1.71	13.3	1912	25	CI C	Accelerator
--------------	------	---	---	------	------	------	------	------	----	------	-------------

Operator Name: OXY USA INCORPORATED**Well Name:** GOLD LOG 4-9 FEDERAL COM**Well Number:** 22H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead	1	7253	10123	385	1.68	13.2	647	5	CI C	Retarder, Dispersant,

PRODUCTION	Lead		9623	21640	681	1.84	13.3	1253	25	CI C	Retarder,
------------	------	--	------	-------	-----	------	------	------	----	------	-----------

Section 5 - Circulating Medium

Mud System Type: Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with Onshore Order #2:****Diagram of the equipment for the circulating system in accordance with Onshore Order #2:**

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

Describe the mud monitoring system utilized: PVT/MD Totco/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1029	10123	OTHER : Saturated Brine Based Mud or Oil Based Mud	8	10							
10123	21640	OTHER : Water-Based and/or Oil-Based Mud	8	9.6							

Operator Name: OXY USA INCORPORATED**Well Name:** GOLD LOG 4-9 FEDERAL COM**Well Number:** 22H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1029	WATER-BASED MUD	8.6	8.8							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

- GR from TD to surface (horizontal well - vertical portion of hole).
- Mud Log from Bone Spring to TD.
- CBL (Production String).

List of open and cased hole logs run in the well:

GAMMA RAY LOG,MUD LOG/GEOLOGIC LITHOLOGY LOG,MUD LOG/GEOLOGICAL LITHOLOGY LOG,CEMENT BOND LOG,DIRECTIONAL SURVEY,

Coring operation description for the well:

No coring is planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5417

Anticipated Surface Pressure: 3029

Anticipated Bottom Hole Temperature(F): 167

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

GOLDLOG4_9FEDCOM22H_H2S1_20240822094135.pdf

GOLDLOG4_9FEDCOM22H_H2S2_20240822094141.pdf

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

GoldLog4_9FedCom22H_DirectPlan_20240822094413.pdf

GoldLog4_9FedCom22H_DirectPlot_20240822094418.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

GOLDLOG4_9FEDCOM22H_DrillPlan_20240822094424.pdf

GOLDLOG4_9FEDCOM22H_SpudRigData_20240822094430.pdf

Other Variance attachment:

GOLDLOG4_9FEDCOM22H_BOPBreakTestingVariance_20240822094439.pdf

GOLDLOG4_9FEDCOM22H_BradenheadCBLVariance_20240822094516.pdf

GOLDLOG4_9FEDCOM22H_OfflineCementVariance_20240822094522.pdf



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

SUPO Data Report

11/01/2024

APD ID: 10400093859

Submission Date: 08/23/2023

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes

[Show Final Text](#)

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

GoldLog4_9FedCom22H_ExistRoads_20230816061414.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

GoldLog4_9FedCom22H_NewRoads_20241014111721.pdf

New road type: LOCAL

Length: 8348

Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 0

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: Watershed Diversion every 200' if needed.

New road access plan or profile prepared? Y

New road access plan

GoldLog4_9FedCom22H_SitePlan_20230816061448.pdf

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 0

Offsite topsoil source description:

Onsite topsoil removal process: If available

Access other construction information: None

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) description: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Pad_401_1_Mile_Radius_Map_20230712085124.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

Gold_Log_Pad_0401_Facilities_Package_20230712085155.pdf

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COMWell Number: 22H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: GW WELL

Water source use type:

SURFACE CASING
INTERMEDIATE/PRODUCTION CASING
OTHER

Describe use type: Drilling

Source latitude:

Source longitude:

Source datum:

Water source permit type: WATER WELL

Water source transport method:

TRUCKING
PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 2000

Source volume (acre-feet): 0.25778618

Source volume (gal): 84000

Water source and transportation

GOLDLOG4_9FEDCOM311H_WtrSrcMesq_20230302131851.pdf
GoldLog4_9FedCom22H_GRRWtrSrc_20230816061537.pdf
Water_Caliche_Source_Map_Gold_Log_20240822094718.pdf

Water source comments: This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations (Gregory Rockhouse, Mesquite) in the area and will be hauled to location by transport truck using existing and proposed roads.

New water well? N

New Water Well Info

Well latitude:Well Longitude:Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):Well casing type:

Operator Name: OXY USA INCORPORATED**Well Name:** GOLD LOG 4-9 FEDERAL COM**Well Number:** 22H**Well casing outside diameter (in.):****Well casing inside diameter (in.):****New water well casing?****Used casing source:****Drilling method:****Drill material:****Grout material:****Grout depth:****Casing length (ft.):****Casing top depth (ft.):****Well Production type:****Completion Method:****Water well additional information:****State appropriation permit:****Additional information attachment:**

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Primary - All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available. Secondary - The secondary way of obtaining caliche to build locations and roads will be by turning over the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel: a. The top 6 of topsoil is pushed off and stockpiled along the side of the location. b. An approximate 120 X 120 area is used within the proposed well site to remove caliche. c. Subsoil is removed and piled alongside the 120 X 120 within the pad site. d. When caliche is found, material will be stockpiled within the pad site to build the location and road. e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road. f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad.

Construction Materials source location

Water_Caliche_Source_Map_Gold_Log_20240822094658.pdf

Section 7 - Methods for Handling

Waste type: DRILLING**Waste content description:** Water-Based Cuttings, Water-Based Mud, Oil-Based Cuttings, Oil-Based Mud, Produced Water**Amount of waste:** 1589 barrels**Waste disposal frequency :** Daily**Safe containment description:** Haul-Off Bins**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY**Disposal location ownership:** COMMERCIAL**Disposal type description:**

Disposal location description: An approved facility that can process drill cuttings, drill fluids, flowback water, produced water, contaminated soils, and other non-hazardous wastes. Methods of Handling Waste Material: a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility. Solids-CRI, Liquids-

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Laguna b. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill. c. The supplier, including broken sacks, will pick up slats remaining after completion of well. d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete. e. Disposal of fluids to be transported will be by the following companies. TFH Ltd, Laguna SWD Facility

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Operator Name: OXY USA INCORPORATED**Well Name:** GOLD LOG 4-9 FEDERAL COM**Well Number:** 22H

Section 9 - Well Site

Well Site Layout Diagram:

GOLDLOG4_9FEDCOM311H_WellsiteCL_20230302131943.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance**Multiple Well Pad Name:** GOLD LOG 4_9 FEDERAL COM**Multiple Well Pad Number:** PAD 0401

Recontouring

GoldLog4_9FedCom22H_CutFill_20230816061656.pdf

Drainage/Erosion control construction: Reclamation to be wind rowed as needed to control erosion**Drainage/Erosion control reclamation:** Reclamation to be wind rowed as needed to control erosion

Well pad proposed disturbance (acres): 11.32	Well pad interim reclamation (acres): 1.85	Well pad long term disturbance (acres): 9.47
Road proposed disturbance (acres): 4.14	Road interim reclamation (acres): 1.38	Road long term disturbance (acres): 2.76
Powerline proposed disturbance (acres): 6.28	Powerline interim reclamation (acres): 6.28	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 15.27	Pipeline interim reclamation (acres): 10.18	Pipeline long term disturbance (acres): 5.09
Other proposed disturbance (acres): 0.92	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0.92
Total proposed disturbance: 37.93000000000001	Total interim reclamation: 19.689999999999998	Total long term disturbance: 18.240000000000002

Disturbance Comments: See Below

Reconstruction method: If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original topsoil will again be returned to the pad and contoured, as close as possible, to the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

Topsoil redistribution: The original topsoil will be returned to the area of the drill pad not necessary to operate the well.**Soil treatment:** To be determined by the BLM.**Existing Vegetation at the well pad:** To be determined by the BLM at Onsite.**Existing Vegetation at the well pad**

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Existing Vegetation Community at the road: To be determined by the BLM at Onsite.

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: To be determined by the BLM at Onsite.

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: To be determined by the BLM at Onsite.

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary	
Seed Type	Pounds/Acre

Total pounds/Acre:

Seed reclamation

Operator Contact/Responsible Official

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Existing invasive species treatment

Weed treatment plan description: To be determined by the BLM.

Weed treatment plan

Monitoring plan description: To be determined by the BLM.

Monitoring plan

Success standards: To be determined by the BLM.

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: OTHER

Describe: Electric Line

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: OXY USA INCORPORATED**Well Name:** GOLD LOG 4-9 FEDERAL COM**Well Number:** 22H**Disturbance type:** NEW ACCESS ROAD**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:****BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:**

Section 12 - Other

Right of Way needed? Y**Use APD as ROW?** Y**ROW Type(s):** 281001 ROW - ROADS,285003 ROW – POWER TRANS,288100 ROW – O&G Pipeline,288101 ROW – O&G Facility Sites,288104 ROW – Salt Water Disposal ApIn/Fac-FLPMA,289001 ROW- O&G Well Pad**ROW****SUPO Additional Information:** Permian Basin MOA - To be submitted after APD acceptance. GIS Shapefiles available for BLM download from shared FTP site after APD submittal.**Use a previously conducted onsite?** N**Previous Onsite information:****Other SUPO**

GOLDLOG4_9FEDCOM_NGMP_Fillable2.22.23_flat_20230712103433.pdf

GoldLog4_9FedCom22H_StakeSheet_20230816061801.pdf

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

GoldLog4_9FedCom22H_VM_20230816061802.pdf
GoldLog4_9FedCom22H_AM_20230816061805.pdf



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

PWD Data Report

11/01/2024

APD ID: 10400093859

Submission Date: 08/23/2023

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: OXY USA INCORPORATED**Well Name:** GOLD LOG 4-9 FEDERAL COM**Well Number:** 22H**Is the reclamation bond a rider under the BLM bond?****Unlined pit bond number:****Unlined pit bond amount:****Additional bond information****Section 4 -****Would you like to utilize Injection PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Injection PWD discharge volume (bbl/day):****Injection well mineral owner:****Injection well type:****Injection well number:****Injection well name:****Assigned injection well API number?****Injection well API number:****Injection well new surface disturbance (acres):****Minerals protection information:****Mineral protection****Underground Injection Control (UIC) Permit?****UIC Permit****Section 5 - Surface****Would you like to utilize Surface Discharge PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Surface discharge PWD discharge volume (bbl/day):****Surface Discharge NPDES Permit?****Surface Discharge NPDES Permit attachment:****Surface Discharge site facilities information:****Surface discharge site facilities map:****Section 6 -****Would you like to utilize Other PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Other PWD discharge volume (bbl/day):**

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Bond Info Data

11/01/2024

APD ID: 10400093859

Submission Date: 08/23/2023

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4-9 FEDERAL COM

Well Number: 22H

Well Type: OIL WELL

Well Work Type: Drill

Bond

Federal/Indian APD: FED

BLM Bond number: ESB000226

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information

Oxy USA Inc. - GOLD LOG 4_9 FED COM 22H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	10850	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	21640	Deepest Expected Fresh Water (ft):	969

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	969	969	
Salado	1161	1161	Salt
Castile	2610	2610	Salt
Delaware	4815	4795	Oil/Gas/Brine
Bell Canyon	4918	4896	Oil/Gas/Brine
Cherry Canyon	5755	5720	Oil/Gas/Brine
Brushy Canyon	7003	6949	Losses
Bone Spring	8853	8771	Oil/Gas
Bone Spring 1st	9891	9793	Oil/Gas
Bone Spring 2nd	10560	10448	Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

		MD		TVD					
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	14.75	0	1029	0	1029	10.75	45.5	J-55	BTC
Intermediate	9.875	0	10123	0	10021	7.625	26.4	L-80 HC	BTC
Production	6.75	0	21640	0	10850	5.5	20	P-110	Sprint-SF

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

All Casing SF Values will meet or exceed those below			
SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
1.00	1.100	1.4	1.4

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM’s minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50’ above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500’ into previous casing?	Y
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100’ to 600’ below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	861	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	385	1.68	13.2	5%	7,253	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1118	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	681	1.84	13.3	25%	9,623	Circulate	Class C+Ret.

Offline Cementing Request

Oxy requests a variance to cement the 9.625” and/or 7.625” intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8” intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see Bradenhead CBL Variance attachment for further details.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type		✓	Tested to:	Deepest TVD Depth (ft) per Section:
9.875" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	10021
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
6.75" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	10850
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				

*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke

	Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.	
	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.	
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	Y	Are anchors required by manufacturer?
	<p>A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.</p> <p>See attached schematics.</p>	

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	1029	0	1029	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	1029	10123	1029	10021	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	10123	21640	10021	10850	Water-Based or Oil-Based Mud	8.0 - 9.6	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls,

What will be used to monitor the loss or gain of fluid?	PVT/MD Totco/Visual Monitoring
---	--------------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing.		
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).	
	Stated logs run will be in the Completion Report and submitted to the BLM.	
No	Logs are planned based on well control or offset log information.	
No	Drill stem test? If yes, explain	
No	Coring? If yes, explain	
Additional logs planned		Interval
No	Resistivity	
No	Density	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5417 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	167°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

		Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 2 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.		Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.		Yes
Total Estimated Cuttings Volume: 1589 bbls		

OXY USA Inc
APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

1. SUMMARY OF REQUEST:

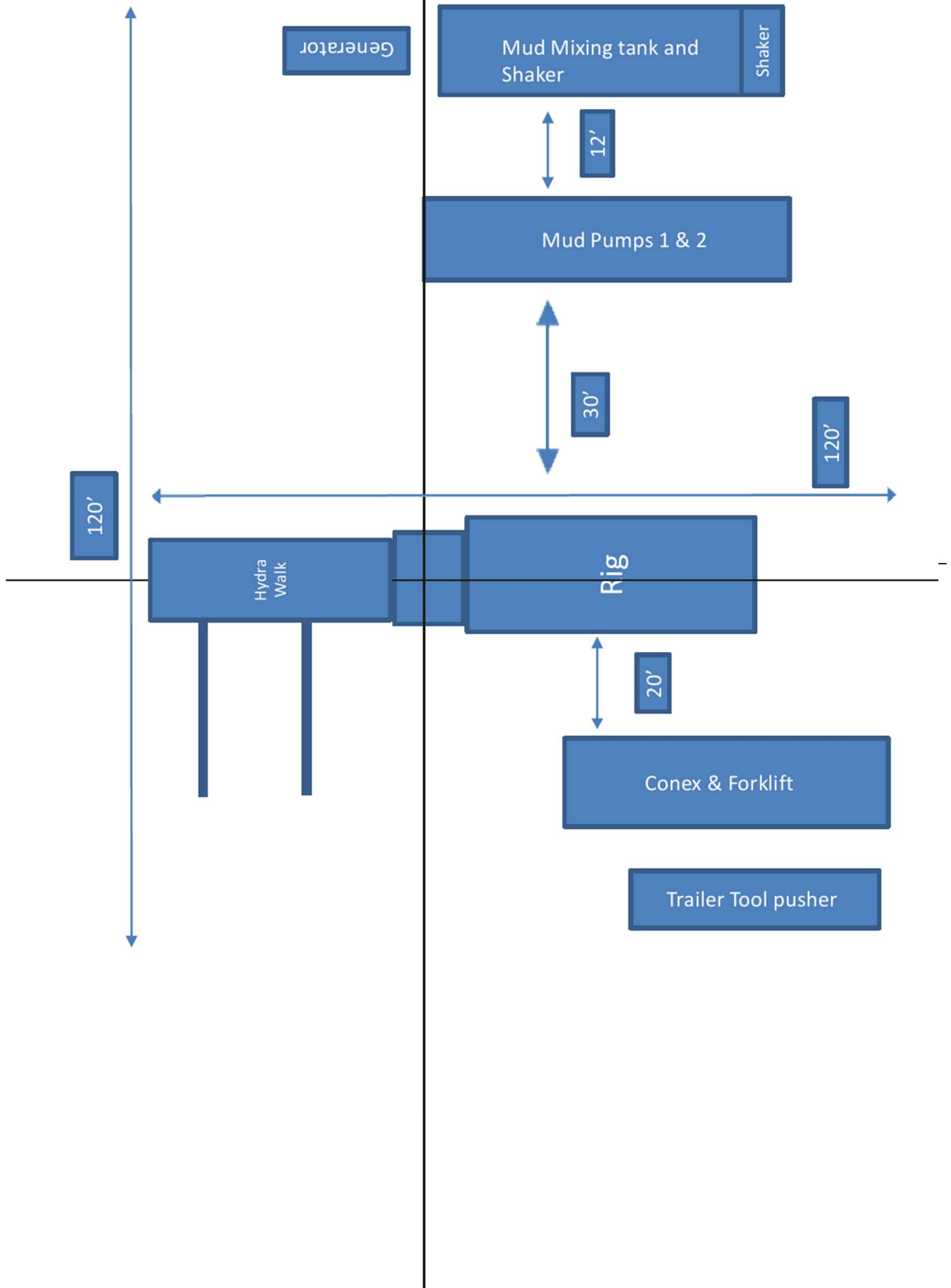
Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

2. Description of Operations

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR part 3170 Subpart 3172, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and the WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be contacted / notified 24 hours before the larger rig moves back on the pre-set locations.
7. Oxy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, Oxy will secure the wellhead area by placing a guard rail around the cellar area.

Spudder Rig Layout



BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.
- When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper.

If the kill line is broken prior to skid, two tests will be performed.

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

- 1) Wellhead flange, co-flex hose, check valve, upper pipe rams

See supporting information below:

Subject: Request for a Variance Allowing Break Testing of a Blowout Preventer Stack

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads. This practice entails retesting only the connections of the **BOP** stack that have been disconnected during this operation and not a complete **BOP** test.

Background

43 CFR part 3170 Subpart 3172 states that a **BOP** test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) is this requires a complete **BOP** test and not just a test of the affected component. 43 CFR part 3170 Subpart 3172, Section I.D.2. states, "Some situations may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this Order. This situation can be resolved by requesting a variance...". OXY feels the practice of break testing the **BOP** stack is such a situation. Therefore, as per 43 CFR part 3170 Subpart 3172, Section IV., OXY submits this request for the variance.

Supporting Rationale

43 CFR part 3170 Subpart 3172 became effective on December 19, 1988, and has remained the standard for regulating BLM onshore drilling operations for almost 30 years. During this time there have been significant changes in drilling technology. **BLM** continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR part 3170 Subpart 3172 was originally released. The drilling rig fleet OXY utilizes in New Mexico was built with many modern upgrades. One of which allows the rigs to skid between wells on multi-well pads. A part of this rig package is a hydraulic winch system which safely installs and removes the BOP from the wellhead and carries it during skidding operations. This technology has made break testing a safe and reliable procedure.

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry. 43 CFR part 3170 Subpart 3172 recognized API Recommended Practices (RP) 53 in its original development. API Standard 53,

Blowout Prevention Equipment Systems for Drilling Wells (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the **BOP** stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specifications and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations. BSEE issued new offshore regulations under 30 CFR Part 250, *Oil and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout Preventer Systems and Well Control*, which became effective on July 28, 2016. Section 250.737(d.1) states "Follow the testing requirements of API Standard 53". In addition, Section 250.737(d.8) has adopted language from **API** Standard 53 as it states "Pressure test affected **BOP** components following the disconnection or repair of any well-pressure containment seal in the wellhead or **BOP** stack assembly".

Break testing has been approved by the BLM in the past. See the Appendix for a Sundry Notice that was approved in 2015 by the Farmington Field Office. This approval granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads.

Oxy feels break testing and our current procedures meet the intent of 43 CFR part 3170 Subpart 3172 and often exceed it. We have not seen any evidence that break testing results in more components failing tests than seen on full BOP tests. As skidding operations take place within the 30-day full BOPE test window, the BOP shell and components such as the pipe rams and check valve get tested to the full rated working pressure more often. Therefore, there are more opportunities to ensure components are in good working order. Also, Oxy's standard requires complete BOP tests more often than that of 43 CFR part 3170 Subpart 3172. In addition to function testing the annular at least weekly and the pipe and blind rams on each trip, Oxy also performs a choke drill prior to drilling out every casing shoe. As a crew's training is a vital part of well control, this procedure to simulate step one of the Driller's Method exceeds the requirements of 43 CFR part 3170 Subpart 3172.

Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing (See Appendix for examples)
- 2) OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the 30-day BOP test window
- 3) After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP.
 - Between the check valve and the kill line
 - Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - Between the BOP flange and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
- 5) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed
- 8) A shell test is performed against the upper pipe rams testing all three breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10) These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- 11) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the initial break test will be tested on this break test

Notes:

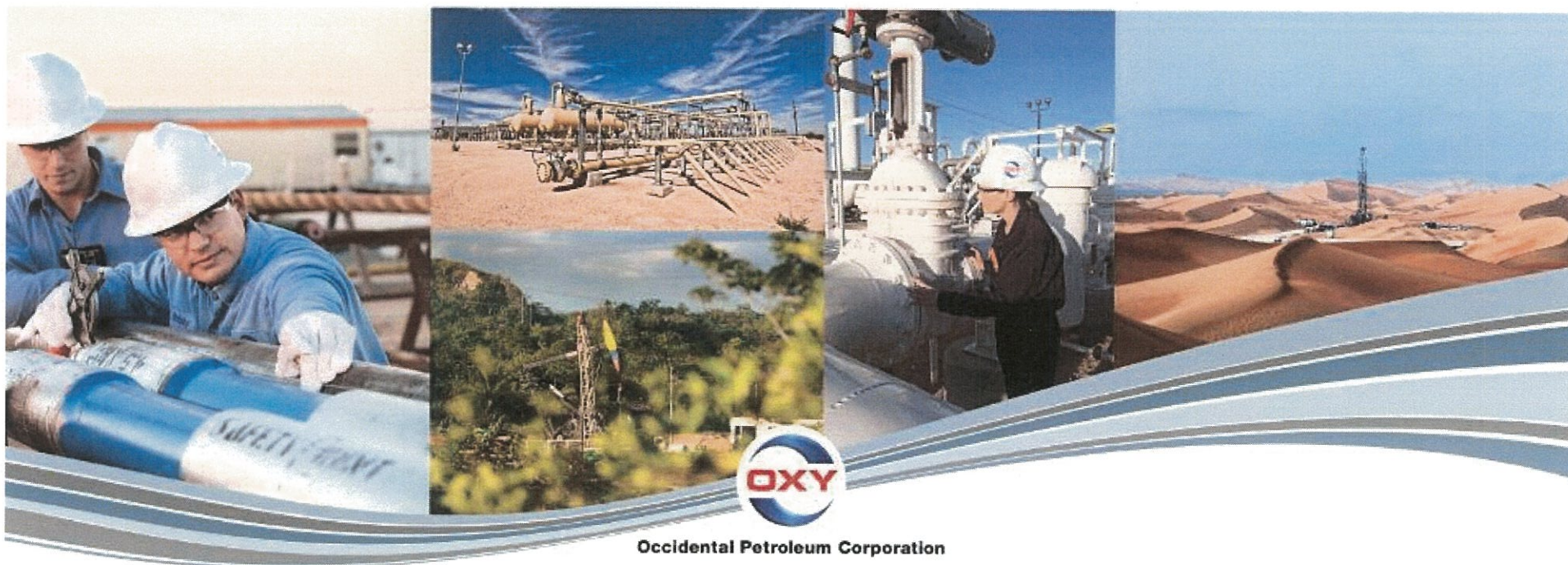
- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step 8 above, no further testing of the manifold is done until the next full BOP test.

Summary

OXY requests a variance to allow break testing of the BOP stack when skidding drilling rigs between wells on multi-well pads. API standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry and the BLM. API Standard 53 recognizes break testing as an acceptable practice and BSEE adopted language from this standard into its newly created 30 CFR Part 250 which also supports break testing. Due to this, OXY feels this request meets the intent of 43 CFR part 3170

REQUEST FOR A VARIANCE TO BREAK TEST THE BOP

Permian Resources New Mexico



Request for Variance

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads

- This practice entails retesting only the connections of the BOP stack that have been disconnected during this operation and not a complete BOP test.
- As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested, no further testing of the manifold is done until the next full BOP test.
- This request is being made as per Section IV of the *Onshore Oil and Gas Order (OOGO) No. 2*

Rationale for Allowing BOP Break Testing

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry

- API Standard 53, *Blowout Prevention Equipment Systems for Drilling Wells* (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break testing as an acceptable practice.
- Specifically, API Standard 53, Section 6.5.3.4.1.b states “Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the BOP stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component.”



Rationale for Allowing BOP Break Testing

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specifications and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

- BSEE issued new offshore regulations in July 2016 under 30 CFR Part 250, *Oil and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout Preventer Systems and Well Control*. Within these regulations is language adopted from API Standard 53 which also supports break testing.
- Specifically, Section 250.737(d.8) states “Pressure test affected BOP components following the disconnection or repair of any well-pressure containment seal in the wellhead or BOP stack assembly.”



Rationale for Allowing BOP Break Testing

Break testing has been approved by the BLM in the past

- The Farmington Field Office approved a Sundry Notice (SN) to allow break testing in 2015
- This SN granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads

Oxy feels break testing and our current procedures meet or exceed the intent of OOGO No. 2

- As skidding operations take place within the 30-day full BOPE test window, the BOP shell and components such as the pipe rams and check valve get tested to the full rated working pressure more often
- Oxy's standard requires complete BOP tests more often than that of OOGO No. 2
- Oxy performs a choke drill prior to drilling out every casing shoe. As a crew's training is a vital part of well control, this procedure to simulate step one of the Driller's Method exceeds the requirements of OOGO No. 2

Break Testing Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing
- 2) OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the full BOP test window
- 3) After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP.
 - Between the check valve and the kill line
 - Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - Between the BOP flange and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
- 5) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed



Break Testing Procedures

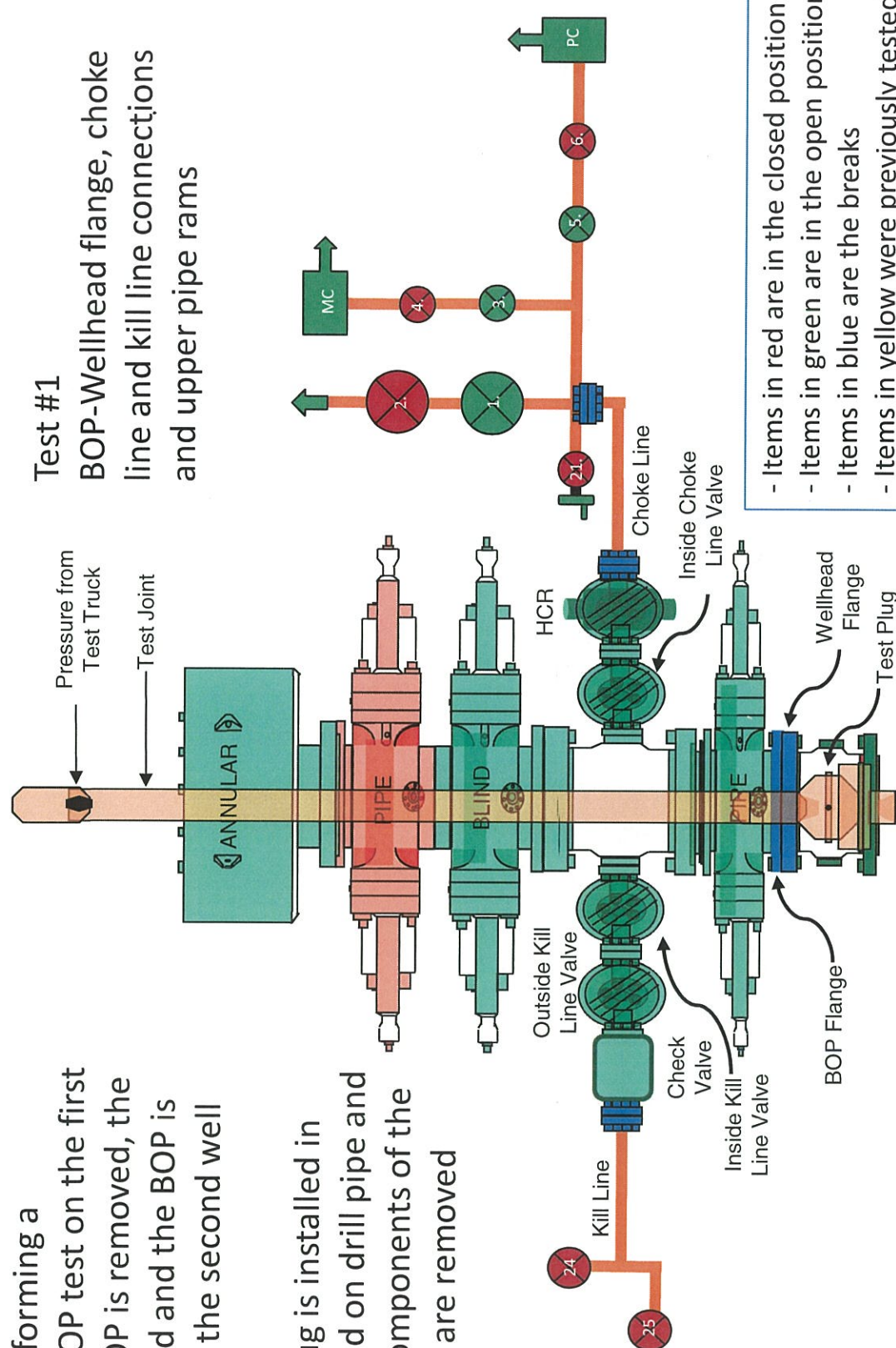
- 8) A shell test is performed against the upper pipe rams testing all three breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed.
A second test is performed on them
- 10) These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- 11) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the first break test will be tested



Break Testing Procedures and Tests

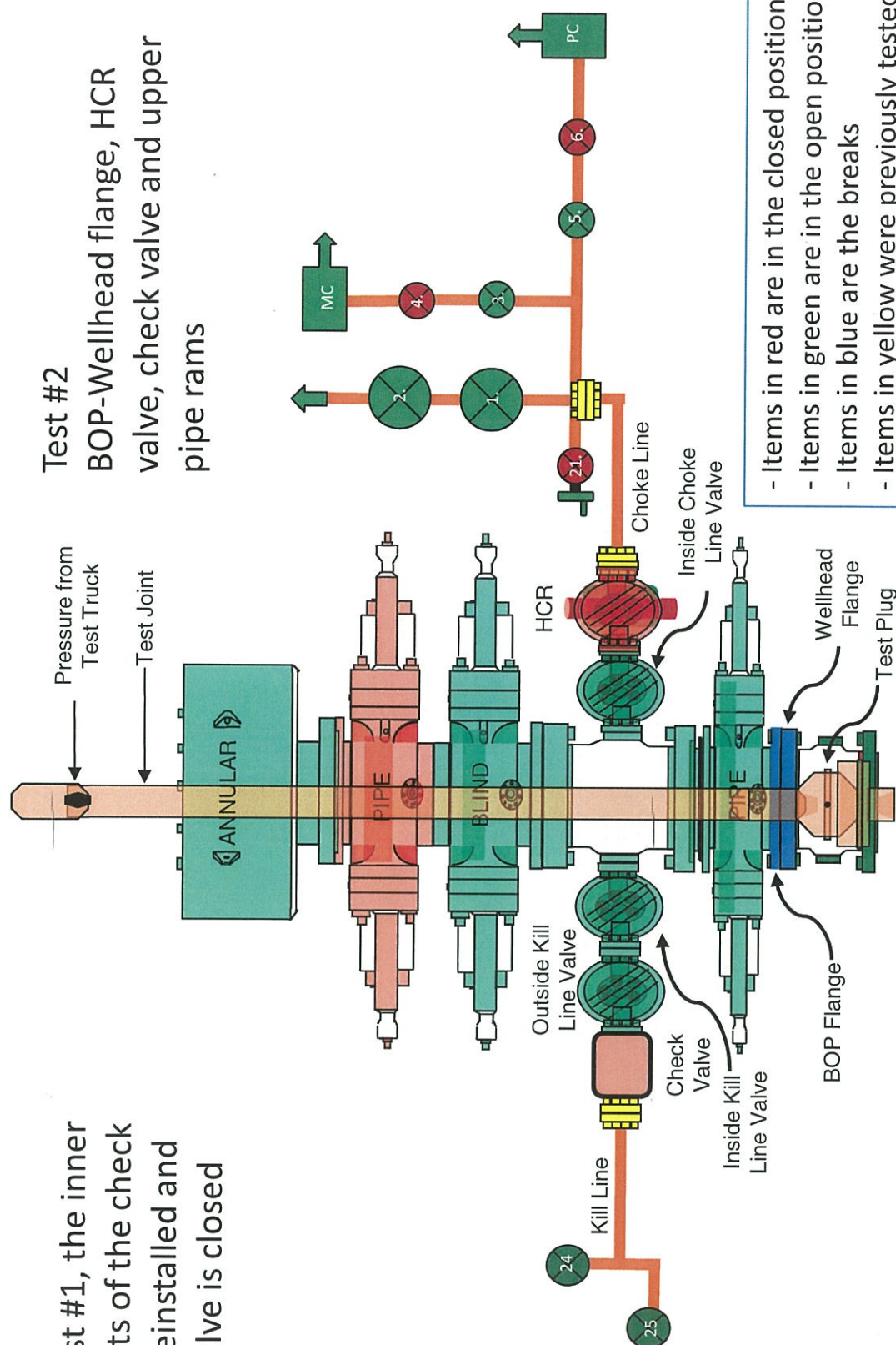
1. After performing a complete BOP test on the first well, the BOP is removed, the rig is skidded and the BOP is installed on the second well

2. A test plug is installed in the wellhead on drill pipe and the inner components of the check valve are removed



Break Testing Procedures and Tests

3. After Test #1, the inner components of the check valve are reinstalled and the HCR valve is closed



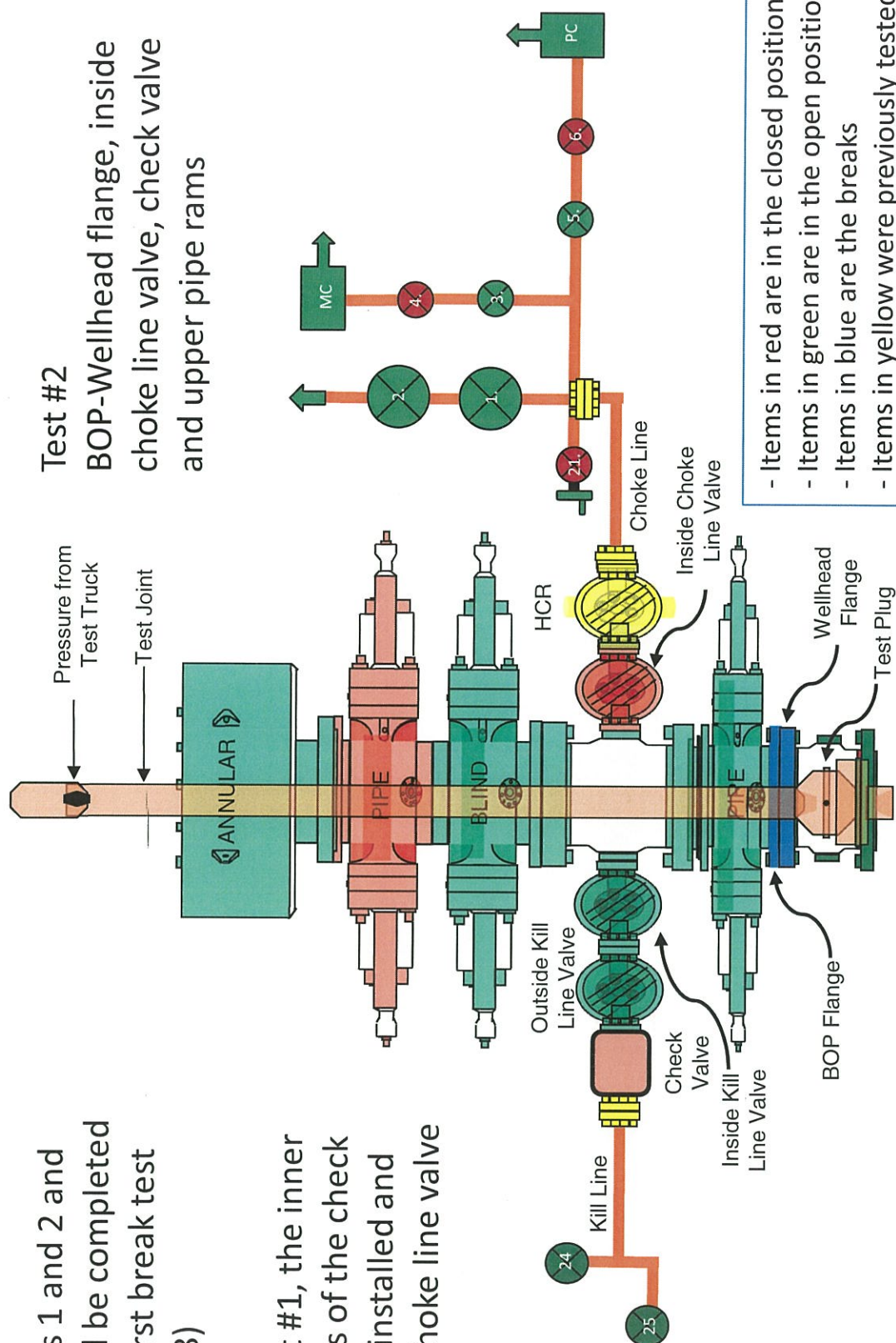
- Items in red are in the closed position
- Items in green are in the open position
- Items in blue are the breaks
- Items in yellow were previously tested



Second Break Testing Procedures and Tests

Procedures 1 and 2 and Test #1 will be completed as in the first break test (see slide 8)

3. After Test #1, the inner components of the check valve are reinstalled and the inside choke line valve is closed



BOP Handling System



Hydraulic winch system which moves the BOP from its carrier to the wellhead

BOP standing in its carrier





12

BOP Handling System



Hydraulic winch
system moving
the BOP over to
the wellhead

Wellhead

Summary for Variance Request for Break Testing

- API standards, specifications and recommended practices are considered industry standards
 - OOGO No. 2 recognized API Recommended Practices (RP) 53 in its original development
 - API Standard 53 recognizes break testing as an acceptable practice
 - The Bureau of Safety and Environmental Enforcement has utilized API standards, specifications and best practices in the development of its offshore oil and gas regulations
 - API Standard 53 recognizes break testing as an acceptable practice
- OXY feels break testing meets the intent of OOGO No. 2 to protect public health and safety and the environment

Bradenhead Cement CBL Variance Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

Three string wells:

- CBL will be required on one well per pad
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Four string wells:

- CBL is not required
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Offline Cementing Variance Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

1. Cement Program

No changes to the cement program will take place for offline cementing.

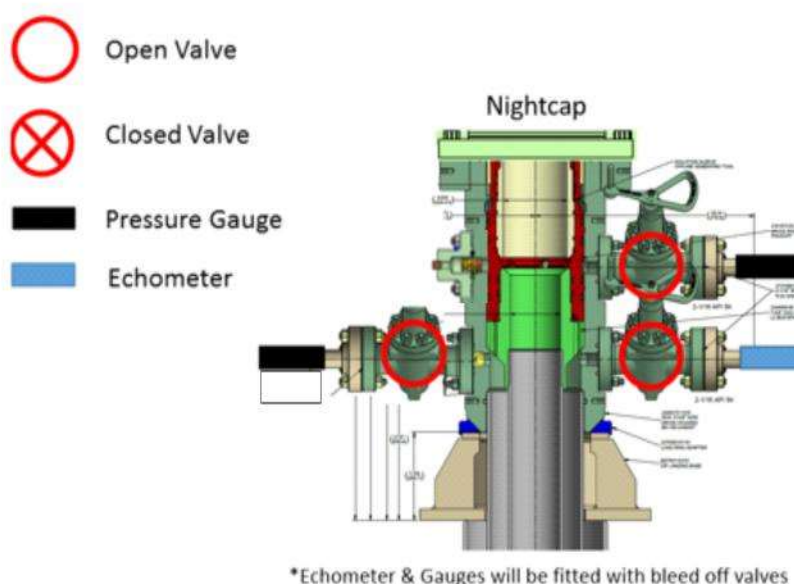
2. Offline Cementing Procedure

The operational sequence will be as follows:

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
2. Land casing with mandrel
3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
4. Set annular packoff shown below and pressure test to confirm integrity of the seal.
Pressure ratings of wellhead components and valves is 5,000 psi

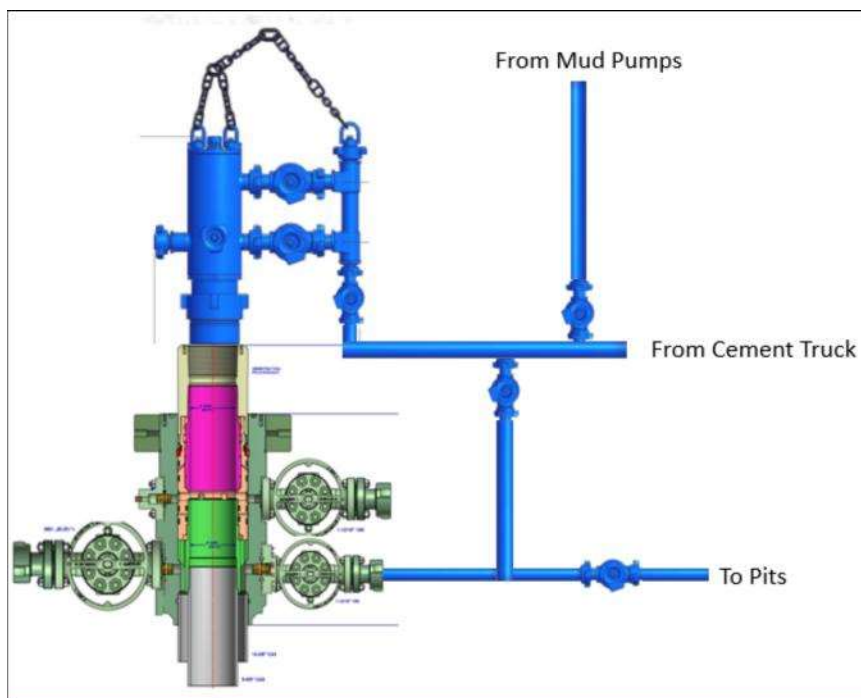
Annular packoff with both external and internal seals





Wellhead diagram during skidding operations

5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50 psi compressive strength if cannot be verified.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nipping up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
8. Install offline cement tool
9. Rig up cement equipment



Wellhead diagram during offline cementing operations

10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
11. Perform cement job taking returns from the annulus wellhead valve
12. Confirm well is static and floats are holding after cement job
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Gold Log 4_9 Fed Com

Gold Log 4_9 Fed Com 22H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

18 April, 2023

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Gold Log 4_9 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3820.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3820.00ft
Site:	Gold Log 4_9 Fed Com	North Reference:	Grid
Well:	Gold Log 4_9 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project	PRD NM DIRECTIONAL PLANS (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Gold Log 4_9 Fed Com		
Site Position:		Northing:	519,408.71 usft
From:	Map	Easting:	741,616.89 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32.426249
		Longitude:	-103.684231

Well	Gold Log 4_9 Fed Com 22H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	2.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.35 °		
		Latitude:	32.426251
		Longitude:	-103.684620
		Ground Level:	3,795.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/20/2022	6.40	60.10	47,748.00000000

Design	Permitting Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	183.04

Plan Survey Tool Program	Date	4/17/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,640.22	Permitting Plan (Wellbore #1)	B001Mb_MWD+HRGM
				OWSG MWD + HRGM

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,805.00	0.00	0.00	2,805.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,805.34	10.00	332.25	3,800.26	77.09	-40.55	1.00	1.00	0.00	332.25	
10,223.39	10.00	332.25	10,120.74	1,063.77	-559.56	0.00	0.00	0.00	0.00	
11,208.35	89.62	179.56	10,780.00	501.11	-608.18	10.00	8.08	-15.50	-152.37	FTP (Gold Log 4_9
21,640.22	89.62	179.56	10,850.00	-9,930.21	-527.33	0.00	0.00	0.00	0.00	BHL (Gold Log 4_9

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Gold Log 4_9 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3820.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3820.00ft
Site:	Gold Log 4_9 Fed Com	North Reference:	Grid
Well:	Gold Log 4_9 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,805.00	0.00	0.00	2,805.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.95	332.25	2,900.00	0.70	-0.37	-0.68	1.00	1.00	0.00
3,000.00	1.95	332.25	2,999.96	2.94	-1.54	-2.85	1.00	1.00	0.00
3,100.00	2.95	332.25	3,099.87	6.72	-3.53	-6.52	1.00	1.00	0.00
3,200.00	3.95	332.25	3,199.69	12.05	-6.34	-11.69	1.00	1.00	0.00
3,300.00	4.95	332.25	3,299.38	18.91	-9.95	-18.36	1.00	1.00	0.00
3,400.00	5.95	332.25	3,398.93	27.32	-14.37	-26.52	1.00	1.00	0.00
3,500.00	6.95	332.25	3,498.30	37.26	-19.60	-36.17	1.00	1.00	0.00
3,600.00	7.95	332.25	3,597.45	48.73	-25.64	-47.31	1.00	1.00	0.00
3,700.00	8.95	332.25	3,696.36	61.74	-32.48	-59.93	1.00	1.00	0.00
3,805.34	10.00	332.25	3,800.26	77.09	-40.55	-74.83	1.00	1.00	0.00
3,900.00	10.00	332.25	3,893.49	91.64	-48.21	-88.96	0.00	0.00	0.00
4,000.00	10.00	332.25	3,991.97	107.02	-56.29	-103.88	0.00	0.00	0.00
4,100.00	10.00	332.25	4,090.45	122.39	-64.38	-118.80	0.00	0.00	0.00
4,200.00	10.00	332.25	4,188.93	137.76	-72.47	-133.73	0.00	0.00	0.00
4,300.00	10.00	332.25	4,287.41	153.14	-80.55	-148.65	0.00	0.00	0.00
4,400.00	10.00	332.25	4,385.89	168.51	-88.64	-163.57	0.00	0.00	0.00
4,500.00	10.00	332.25	4,484.37	183.88	-96.73	-178.50	0.00	0.00	0.00
4,600.00	10.00	332.25	4,582.84	199.26	-104.81	-193.42	0.00	0.00	0.00
4,700.00	10.00	332.25	4,681.32	214.63	-112.90	-208.34	0.00	0.00	0.00
4,800.00	10.00	332.25	4,779.80	230.00	-120.99	-223.26	0.00	0.00	0.00
4,900.00	10.00	332.25	4,878.28	245.38	-129.07	-238.19	0.00	0.00	0.00
5,000.00	10.00	332.25	4,976.76	260.75	-137.16	-253.11	0.00	0.00	0.00
5,100.00	10.00	332.25	5,075.24	276.12	-145.25	-268.03	0.00	0.00	0.00
5,200.00	10.00	332.25	5,173.72	291.50	-153.33	-282.96	0.00	0.00	0.00
5,300.00	10.00	332.25	5,272.20	306.87	-161.42	-297.88	0.00	0.00	0.00
5,400.00	10.00	332.25	5,370.68	322.24	-169.51	-312.80	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Gold Log 4_9 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3820.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3820.00ft
Site:	Gold Log 4_9 Fed Com	North Reference:	Grid
Well:	Gold Log 4_9 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,500.00	10.00	332.25	5,469.16	337.62	-177.59	-327.73	0.00	0.00	0.00
5,600.00	10.00	332.25	5,567.64	352.99	-185.68	-342.65	0.00	0.00	0.00
5,700.00	10.00	332.25	5,666.12	368.36	-193.77	-357.57	0.00	0.00	0.00
5,800.00	10.00	332.25	5,764.60	383.74	-201.85	-372.49	0.00	0.00	0.00
5,900.00	10.00	332.25	5,863.08	399.11	-209.94	-387.42	0.00	0.00	0.00
6,000.00	10.00	332.25	5,961.56	414.48	-218.03	-402.34	0.00	0.00	0.00
6,100.00	10.00	332.25	6,060.04	429.86	-226.11	-417.26	0.00	0.00	0.00
6,200.00	10.00	332.25	6,158.52	445.23	-234.20	-432.19	0.00	0.00	0.00
6,300.00	10.00	332.25	6,257.00	460.61	-242.29	-447.11	0.00	0.00	0.00
6,400.00	10.00	332.25	6,355.48	475.98	-250.37	-462.03	0.00	0.00	0.00
6,500.00	10.00	332.25	6,453.96	491.35	-258.46	-476.96	0.00	0.00	0.00
6,600.00	10.00	332.25	6,552.44	506.73	-266.55	-491.88	0.00	0.00	0.00
6,700.00	10.00	332.25	6,650.92	522.10	-274.63	-506.80	0.00	0.00	0.00
6,800.00	10.00	332.25	6,749.40	537.47	-282.72	-521.73	0.00	0.00	0.00
6,900.00	10.00	332.25	6,847.88	552.85	-290.81	-536.65	0.00	0.00	0.00
7,000.00	10.00	332.25	6,946.36	568.22	-298.89	-551.57	0.00	0.00	0.00
7,100.00	10.00	332.25	7,044.84	583.59	-306.98	-566.49	0.00	0.00	0.00
7,200.00	10.00	332.25	7,143.32	598.97	-315.07	-581.42	0.00	0.00	0.00
7,300.00	10.00	332.25	7,241.80	614.34	-323.16	-596.34	0.00	0.00	0.00
7,400.00	10.00	332.25	7,340.28	629.71	-331.24	-611.26	0.00	0.00	0.00
7,500.00	10.00	332.25	7,438.76	645.09	-339.33	-626.19	0.00	0.00	0.00
7,600.00	10.00	332.25	7,537.24	660.46	-347.42	-641.11	0.00	0.00	0.00
7,700.00	10.00	332.25	7,635.72	675.83	-355.50	-656.03	0.00	0.00	0.00
7,800.00	10.00	332.25	7,734.20	691.21	-363.59	-670.96	0.00	0.00	0.00
7,900.00	10.00	332.25	7,832.68	706.58	-371.68	-685.88	0.00	0.00	0.00
8,000.00	10.00	332.25	7,931.16	721.95	-379.76	-700.80	0.00	0.00	0.00
8,100.00	10.00	332.25	8,029.64	737.33	-387.85	-715.72	0.00	0.00	0.00
8,200.00	10.00	332.25	8,128.12	752.70	-395.94	-730.65	0.00	0.00	0.00
8,300.00	10.00	332.25	8,226.60	768.07	-404.02	-745.57	0.00	0.00	0.00
8,400.00	10.00	332.25	8,325.08	783.45	-412.11	-760.49	0.00	0.00	0.00
8,500.00	10.00	332.25	8,423.56	798.82	-420.20	-775.42	0.00	0.00	0.00
8,600.00	10.00	332.25	8,522.03	814.20	-428.28	-790.34	0.00	0.00	0.00
8,700.00	10.00	332.25	8,620.51	829.57	-436.37	-805.26	0.00	0.00	0.00
8,800.00	10.00	332.25	8,718.99	844.94	-444.46	-820.19	0.00	0.00	0.00
8,900.00	10.00	332.25	8,817.47	860.32	-452.54	-835.11	0.00	0.00	0.00
9,000.00	10.00	332.25	8,915.95	875.69	-460.63	-850.03	0.00	0.00	0.00
9,100.00	10.00	332.25	9,014.43	891.06	-468.72	-864.96	0.00	0.00	0.00
9,200.00	10.00	332.25	9,112.91	906.44	-476.80	-879.88	0.00	0.00	0.00
9,300.00	10.00	332.25	9,211.39	921.81	-484.89	-894.80	0.00	0.00	0.00
9,400.00	10.00	332.25	9,309.87	937.18	-492.98	-909.72	0.00	0.00	0.00
9,500.00	10.00	332.25	9,408.35	952.56	-501.06	-924.65	0.00	0.00	0.00
9,600.00	10.00	332.25	9,506.83	967.93	-509.15	-939.57	0.00	0.00	0.00
9,700.00	10.00	332.25	9,605.31	983.30	-517.24	-954.49	0.00	0.00	0.00
9,800.00	10.00	332.25	9,703.79	998.68	-525.32	-969.42	0.00	0.00	0.00
9,900.00	10.00	332.25	9,802.27	1,014.05	-533.41	-984.34	0.00	0.00	0.00
10,000.00	10.00	332.25	9,900.75	1,029.42	-541.50	-999.26	0.00	0.00	0.00
10,100.00	10.00	332.25	9,999.23	1,044.80	-549.58	-1,014.19	0.00	0.00	0.00
10,200.00	10.00	332.25	10,097.71	1,060.17	-557.67	-1,029.11	0.00	0.00	0.00
10,223.39	10.00	332.25	10,120.74	1,063.77	-559.56	-1,032.60	0.00	0.00	0.00
10,250.00	7.74	323.06	10,147.04	1,067.25	-561.72	-1,035.96	10.00	-8.49	-34.55
10,300.00	4.78	284.34	10,196.75	1,070.46	-565.76	-1,038.95	10.00	-5.93	-77.44
10,350.00	5.97	230.17	10,246.56	1,069.31	-569.78	-1,037.59	10.00	2.38	-108.34
10,400.00	9.91	207.07	10,296.09	1,063.81	-573.73	-1,031.89	10.00	7.89	-46.20
10,450.00	14.52	197.71	10,344.94	1,054.00	-577.60	-1,021.89	10.00	9.21	-18.72
10,500.00	19.32	192.85	10,392.77	1,039.95	-581.35	-1,007.66	10.00	9.60	-9.71

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Gold Log 4_9 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3820.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3820.00ft
Site:	Gold Log 4_9 Fed Com	North Reference:	Grid
Well:	Gold Log 4_9 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,550.00	24.20	189.89	10,439.19	1,021.78	-584.95	-989.33	10.00	9.76	-5.94
10,600.00	29.12	187.87	10,483.87	999.62	-588.38	-967.02	10.00	9.84	-4.03
10,650.00	34.06	186.39	10,526.45	973.64	-591.60	-940.90	10.00	9.88	-2.95
10,700.00	39.01	185.25	10,566.61	944.04	-594.60	-911.18	10.00	9.91	-2.28
10,750.00	43.97	184.33	10,604.05	911.04	-597.36	-878.08	10.00	9.93	-1.84
10,800.00	48.94	183.56	10,638.48	874.89	-599.84	-841.86	10.00	9.94	-1.54
10,850.00	53.92	182.90	10,669.65	835.88	-602.04	-802.78	10.00	9.95	-1.32
10,900.00	58.89	182.32	10,697.31	794.28	-603.93	-761.14	10.00	9.95	-1.16
10,950.00	63.87	181.80	10,721.25	750.44	-605.50	-717.27	10.00	9.96	-1.05
11,000.00	68.85	181.32	10,741.29	704.66	-606.74	-671.50	10.00	9.96	-0.96
11,050.00	73.83	180.87	10,757.28	657.31	-607.64	-624.17	10.00	9.96	-0.90
11,100.00	78.82	180.44	10,769.10	608.75	-608.19	-575.64	10.00	9.97	-0.85
11,150.00	83.80	180.03	10,776.65	559.34	-608.39	-526.29	10.00	9.97	-0.82
11,200.00	88.78	179.62	10,779.88	509.46	-608.24	-476.49	10.00	9.97	-0.81
11,208.35	89.62	179.56	10,780.00	501.11	-608.18	-468.16	10.00	9.97	-0.81
11,300.00	89.62	179.56	10,780.62	409.47	-607.47	-376.68	0.00	0.00	0.00
11,400.00	89.62	179.56	10,781.29	309.47	-606.69	-276.87	0.00	0.00	0.00
11,500.00	89.62	179.56	10,781.96	209.48	-605.92	-177.05	0.00	0.00	0.00
11,600.00	89.62	179.56	10,782.63	109.48	-605.14	-77.24	0.00	0.00	0.00
11,700.00	89.62	179.56	10,783.30	9.49	-604.37	22.57	0.00	0.00	0.00
11,800.00	89.62	179.56	10,783.97	-90.51	-603.59	122.39	0.00	0.00	0.00
11,900.00	89.62	179.56	10,784.64	-190.50	-602.82	222.20	0.00	0.00	0.00
12,000.00	89.62	179.56	10,785.31	-290.50	-602.04	322.01	0.00	0.00	0.00
12,100.00	89.62	179.56	10,785.98	-390.49	-601.27	421.83	0.00	0.00	0.00
12,200.00	89.62	179.56	10,786.65	-490.49	-600.49	521.64	0.00	0.00	0.00
12,300.00	89.62	179.56	10,787.33	-590.48	-599.72	621.45	0.00	0.00	0.00
12,400.00	89.62	179.56	10,788.00	-690.48	-598.94	721.26	0.00	0.00	0.00
12,500.00	89.62	179.56	10,788.67	-790.47	-598.17	821.08	0.00	0.00	0.00
12,600.00	89.62	179.56	10,789.34	-890.47	-597.39	920.89	0.00	0.00	0.00
12,700.00	89.62	179.56	10,790.01	-990.46	-596.62	1,020.70	0.00	0.00	0.00
12,800.00	89.62	179.56	10,790.68	-1,090.46	-595.84	1,120.52	0.00	0.00	0.00
12,900.00	89.62	179.56	10,791.35	-1,190.45	-595.07	1,220.33	0.00	0.00	0.00
13,000.00	89.62	179.56	10,792.02	-1,290.44	-594.29	1,320.14	0.00	0.00	0.00
13,100.00	89.62	179.56	10,792.69	-1,390.44	-593.52	1,419.95	0.00	0.00	0.00
13,200.00	89.62	179.56	10,793.36	-1,490.43	-592.74	1,519.77	0.00	0.00	0.00
13,300.00	89.62	179.56	10,794.04	-1,590.43	-591.97	1,619.58	0.00	0.00	0.00
13,400.00	89.62	179.56	10,794.71	-1,690.42	-591.19	1,719.39	0.00	0.00	0.00
13,500.00	89.62	179.56	10,795.38	-1,790.42	-590.42	1,819.21	0.00	0.00	0.00
13,600.00	89.62	179.56	10,796.05	-1,890.41	-589.64	1,919.02	0.00	0.00	0.00
13,700.00	89.62	179.56	10,796.72	-1,990.41	-588.87	2,018.83	0.00	0.00	0.00
13,800.00	89.62	179.56	10,797.39	-2,090.40	-588.09	2,118.65	0.00	0.00	0.00
13,900.00	89.62	179.56	10,798.06	-2,190.40	-587.32	2,218.46	0.00	0.00	0.00
14,000.00	89.62	179.56	10,798.73	-2,290.39	-586.54	2,318.27	0.00	0.00	0.00
14,100.00	89.62	179.56	10,799.40	-2,390.39	-585.77	2,418.08	0.00	0.00	0.00
14,200.00	89.62	179.56	10,800.07	-2,490.38	-584.99	2,517.90	0.00	0.00	0.00
14,300.00	89.62	179.56	10,800.75	-2,590.38	-584.22	2,617.71	0.00	0.00	0.00
14,400.00	89.62	179.56	10,801.42	-2,690.37	-583.44	2,717.52	0.00	0.00	0.00
14,500.00	89.62	179.56	10,802.09	-2,790.37	-582.67	2,817.34	0.00	0.00	0.00
14,600.00	89.62	179.56	10,802.76	-2,890.36	-581.89	2,917.15	0.00	0.00	0.00
14,700.00	89.62	179.56	10,803.43	-2,990.36	-581.12	3,016.96	0.00	0.00	0.00
14,800.00	89.62	179.56	10,804.10	-3,090.35	-580.34	3,116.78	0.00	0.00	0.00
14,900.00	89.62	179.56	10,804.77	-3,190.34	-579.57	3,216.59	0.00	0.00	0.00
15,000.00	89.62	179.56	10,805.44	-3,290.34	-578.79	3,316.40	0.00	0.00	0.00
15,100.00	89.62	179.56	10,806.11	-3,390.33	-578.02	3,416.21	0.00	0.00	0.00
15,200.00	89.62	179.56	10,806.79	-3,490.33	-577.24	3,516.03	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Gold Log 4_9 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3820.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3820.00ft
Site:	Gold Log 4_9 Fed Com	North Reference:	Grid
Well:	Gold Log 4_9 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,300.00	89.62	179.56	10,807.46	-3,590.32	-576.47	3,615.84	0.00	0.00	0.00
15,400.00	89.62	179.56	10,808.13	-3,690.32	-575.69	3,715.65	0.00	0.00	0.00
15,500.00	89.62	179.56	10,808.80	-3,790.31	-574.92	3,815.47	0.00	0.00	0.00
15,600.00	89.62	179.56	10,809.47	-3,890.31	-574.14	3,915.28	0.00	0.00	0.00
15,700.00	89.62	179.56	10,810.14	-3,990.30	-573.37	4,015.09	0.00	0.00	0.00
15,800.00	89.62	179.56	10,810.81	-4,090.30	-572.59	4,114.91	0.00	0.00	0.00
15,900.00	89.62	179.56	10,811.48	-4,190.29	-571.82	4,214.72	0.00	0.00	0.00
16,000.00	89.62	179.56	10,812.15	-4,290.29	-571.04	4,314.53	0.00	0.00	0.00
16,100.00	89.62	179.56	10,812.82	-4,390.28	-570.27	4,414.34	0.00	0.00	0.00
16,200.00	89.62	179.56	10,813.50	-4,490.28	-569.49	4,514.16	0.00	0.00	0.00
16,300.00	89.62	179.56	10,814.17	-4,590.27	-568.72	4,613.97	0.00	0.00	0.00
16,400.00	89.62	179.56	10,814.84	-4,690.27	-567.94	4,713.78	0.00	0.00	0.00
16,500.00	89.62	179.56	10,815.51	-4,790.26	-567.17	4,813.60	0.00	0.00	0.00
16,600.00	89.62	179.56	10,816.18	-4,890.26	-566.39	4,913.41	0.00	0.00	0.00
16,700.00	89.62	179.56	10,816.85	-4,990.25	-565.62	5,013.22	0.00	0.00	0.00
16,800.00	89.62	179.56	10,817.52	-5,090.25	-564.85	5,113.04	0.00	0.00	0.00
16,900.00	89.62	179.56	10,818.19	-5,190.24	-564.07	5,212.85	0.00	0.00	0.00
17,000.00	89.62	179.56	10,818.86	-5,290.23	-563.30	5,312.66	0.00	0.00	0.00
17,100.00	89.62	179.56	10,819.53	-5,390.23	-562.52	5,412.47	0.00	0.00	0.00
17,200.00	89.62	179.56	10,820.21	-5,490.22	-561.75	5,512.29	0.00	0.00	0.00
17,300.00	89.62	179.56	10,820.88	-5,590.22	-560.97	5,612.10	0.00	0.00	0.00
17,400.00	89.62	179.56	10,821.55	-5,690.21	-560.20	5,711.91	0.00	0.00	0.00
17,500.00	89.62	179.56	10,822.22	-5,790.21	-559.42	5,811.73	0.00	0.00	0.00
17,600.00	89.62	179.56	10,822.89	-5,890.20	-558.65	5,911.54	0.00	0.00	0.00
17,700.00	89.62	179.56	10,823.56	-5,990.20	-557.87	6,011.35	0.00	0.00	0.00
17,800.00	89.62	179.56	10,824.23	-6,090.19	-557.10	6,111.16	0.00	0.00	0.00
17,900.00	89.62	179.56	10,824.90	-6,190.19	-556.32	6,210.98	0.00	0.00	0.00
18,000.00	89.62	179.56	10,825.57	-6,290.18	-555.55	6,310.79	0.00	0.00	0.00
18,100.00	89.62	179.56	10,826.24	-6,390.18	-554.77	6,410.60	0.00	0.00	0.00
18,200.00	89.62	179.56	10,826.92	-6,490.17	-554.00	6,510.42	0.00	0.00	0.00
18,300.00	89.62	179.56	10,827.59	-6,590.17	-553.22	6,610.23	0.00	0.00	0.00
18,400.00	89.62	179.56	10,828.26	-6,690.16	-552.45	6,710.04	0.00	0.00	0.00
18,500.00	89.62	179.56	10,828.93	-6,790.16	-551.67	6,809.86	0.00	0.00	0.00
18,600.00	89.62	179.56	10,829.60	-6,890.15	-550.90	6,909.67	0.00	0.00	0.00
18,700.00	89.62	179.56	10,830.27	-6,990.15	-550.12	7,009.48	0.00	0.00	0.00
18,800.00	89.62	179.56	10,830.94	-7,090.14	-549.35	7,109.29	0.00	0.00	0.00
18,900.00	89.62	179.56	10,831.61	-7,190.13	-548.57	7,209.11	0.00	0.00	0.00
19,000.00	89.62	179.56	10,832.28	-7,290.13	-547.80	7,308.92	0.00	0.00	0.00
19,100.00	89.62	179.56	10,832.95	-7,390.12	-547.02	7,408.73	0.00	0.00	0.00
19,200.00	89.62	179.56	10,833.63	-7,490.12	-546.25	7,508.55	0.00	0.00	0.00
19,300.00	89.62	179.56	10,834.30	-7,590.11	-545.47	7,608.36	0.00	0.00	0.00
19,400.00	89.62	179.56	10,834.97	-7,690.11	-544.70	7,708.17	0.00	0.00	0.00
19,500.00	89.62	179.56	10,835.64	-7,790.10	-543.92	7,807.99	0.00	0.00	0.00
19,600.00	89.62	179.56	10,836.31	-7,890.10	-543.15	7,907.80	0.00	0.00	0.00
19,700.00	89.62	179.56	10,836.98	-7,990.09	-542.37	8,007.61	0.00	0.00	0.00
19,800.00	89.62	179.56	10,837.65	-8,090.09	-541.60	8,107.42	0.00	0.00	0.00
19,900.00	89.62	179.56	10,838.32	-8,190.08	-540.82	8,207.24	0.00	0.00	0.00
20,000.00	89.62	179.56	10,838.99	-8,290.08	-540.05	8,307.05	0.00	0.00	0.00
20,100.00	89.62	179.56	10,839.67	-8,390.07	-539.27	8,406.86	0.00	0.00	0.00
20,200.00	89.62	179.56	10,840.34	-8,490.07	-538.50	8,506.68	0.00	0.00	0.00
20,300.00	89.62	179.56	10,841.01	-8,590.06	-537.72	8,606.49	0.00	0.00	0.00
20,400.00	89.62	179.56	10,841.68	-8,690.06	-536.95	8,706.30	0.00	0.00	0.00
20,500.00	89.62	179.56	10,842.35	-8,790.05	-536.17	8,806.12	0.00	0.00	0.00
20,600.00	89.62	179.56	10,843.02	-8,890.05	-535.40	8,905.93	0.00	0.00	0.00
20,700.00	89.62	179.56	10,843.69	-8,990.04	-534.62	9,005.74	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Gold Log 4_9 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3820.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3820.00ft
Site:	Gold Log 4_9 Fed Com	North Reference:	Grid
Well:	Gold Log 4_9 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
20,800.00	89.62	179.56	10,844.36	-9,090.03	-533.85	9,105.55	0.00	0.00	0.00
20,900.00	89.62	179.56	10,845.03	-9,190.03	-533.07	9,205.37	0.00	0.00	0.00
21,000.00	89.62	179.56	10,845.70	-9,290.02	-532.30	9,305.18	0.00	0.00	0.00
21,100.00	89.62	179.56	10,846.38	-9,390.02	-531.52	9,404.99	0.00	0.00	0.00
21,200.00	89.62	179.56	10,847.05	-9,490.01	-530.75	9,504.81	0.00	0.00	0.00
21,300.00	89.62	179.56	10,847.72	-9,590.01	-529.97	9,604.62	0.00	0.00	0.00
21,400.00	89.62	179.56	10,848.39	-9,690.00	-529.20	9,704.43	0.00	0.00	0.00
21,500.00	89.62	179.56	10,849.06	-9,790.00	-528.42	9,804.25	0.00	0.00	0.00
21,600.00	89.62	179.56	10,849.73	-9,889.99	-527.65	9,904.06	0.00	0.00	0.00
21,640.22	89.62	179.56	10,850.00	-9,930.21	-527.33	9,944.20	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP (Gold Log 4_9	0.00	0.00	10,780.00	501.11	-608.18	519,909.79	740,888.74	32.427638	-103.686581
- plan hits target center									
- Point									
BHL (Gold Log 4_9	0.00	0.00	10,850.00	-9,930.21	-527.33	509,478.96	740,969.58	32.398966	-103.686524
- plan hits target center									
- Point									

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
969.00	969.00	RUSTLER			
1,161.00	1,161.00	SALADO			
2,610.00	2,610.00	CASTILE			
4,815.43	4,795.00	DELAWARE			
4,917.99	4,896.00	BELL CANYON			
5,754.71	5,720.00	CHERRY CANYON			
7,002.68	6,949.00	BRUSHY CANYON			
8,852.81	8,771.00	BONE SPRING			
9,890.59	9,793.00	BONE SPRING 1ST			
10,559.69	10,448.00	BONE SPRING 2ND			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,805.00	2,805.00	0.00	0.00	Build 1°/100'
3,805.34	3,800.27	77.09	-40.55	Hold 10°
10,223.38	10,120.74	1,063.77	-559.56	KOP, Build & Turn 10°/100'
11,208.35	10,780.00	501.11	-608.18	Landing Point
21,640.22	10,850.00	-9,930.21	-527.33	TD at 21640.22' MD

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
WELL NAME & NO.:	GOLD LOG 4 9 FED COM 22H
LOCATION:	Section 4, T.22 S., R.32 E.
COUNTY:	Lea County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input type="radio"/> None	<input checked="" type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Wellhead Variance	<input type="radio"/> Diverter		
Other	<input type="checkbox"/> 4 String	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Open Annulus
Cementing	<input type="checkbox"/> Contingency Cement Squeeze	<input type="checkbox"/> EchoMeter	<input checked="" type="checkbox"/> Primary Cement Squeeze
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **1042** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The 7-5/8 inch intermediate casing shall be set at approximately **10,123 feet. KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon**
 - b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified
- ❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Bradenhead squeeze in the production interval is only as an edge case remediation measure and is NOT approved in this COA. If production cement job experiences losses and a bradenhead squeeze is needed for tie-back, BLM Engineering should be notified prior to job with volumes and planned wellbore schematic. CBL will be needed when this occurs.

3. The 5-1/2 inch production casing shall be set at approximately **21,640** feet. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated

date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (**Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP**)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (**575-706-2779**) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Offline cementing OK for surface and intermediate intervals. Notify the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; [BLM NM CFO DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

Contact Lea County Petroleum Engineering Inspection Staff:

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until

both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

- i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- iii. Manufacturer representative shall install the test plug for the initial BOP test.

- iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v. The results of the test shall be reported to the appropriate BLM office.
 - vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

KPI 10/29/2024



Permian Drilling Hydrogen Sulfide Drilling Operations Plan

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.





Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

Scope

This contingency plan establishes guidelines for the public, all company employees, and contract employees who's work activities may involve exposure to hydrogen sulfide (H₂S) gas.

While drilling this well, it is possible to encounter H₂S bearing formations. At all times, the first barrier to control H₂S emissions will be the drilling fluid, which will have a density high enough to control influx.

Objective

1. Provide an immediate and predetermined response plan to any condition when H₂S is detected. All H₂S detections in excess of 10 parts per million (ppm) concentration are considered an Emergency.
2. Prevent any and all accidents, and prevent the uncontrolled release of hydrogen sulfide into the atmosphere.
3. Provide proper evacuation procedures to cope with emergencies.
4. Provide immediate and adequate medical attention should an injury occur.

Discussion

Implementation:	This plan with all details is to be fully implemented before drilling to <u>commence</u> .
Emergency response Procedure:	This section outlines the conditions and denotes steps to be taken in the event of an emergency.
Emergency equipment Procedure:	This section outlines the safety and emergency equipment that will be required for the drilling of this well.
Training provisions:	This section outlines the training provisions that must be adhered to prior to drilling.
Drilling emergency call lists:	Included are the telephone numbers of all persons to be contacted should an emergency exist.
Briefing:	This section deals with the briefing of all people involved in the drilling operation.
Public safety:	Public safety personnel will be made aware of any potential evacuation and any additional support needed.
Check lists:	Status check lists and procedural check lists have been included to insure adherence to the plan.
General information:	A general information section has been included to supply support information.

Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on the well:

1. The hazards and characteristics of H₂S.
2. Proper use and maintenance of personal protective equipment and life support systems.
3. H₂S detection.
4. Proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.
5. Proper techniques for first aid and rescue procedures.
6. Physical effects of hydrogen sulfide on the human body.
7. Toxicity of hydrogen sulfide and sulfur dioxide.
8. Use of SCBA and supplied air equipment.
9. First aid and artificial respiration.
10. Emergency rescue.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S on metal components. If high tensile strength tubular is to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling a well, blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan.

H₂S training refresher must have been taken within one year prior to drilling the well. Specifics on the well to be drilled will be discussed during the pre-spud meeting. H₂S and well control (choke) drills will be performed while drilling the well, at least on a weekly basis. This plan shall be available in the well site. All personnel will be required to carry the documentation proving that the H₂S training has been taken.

Service company and visiting personnel

- A. Each service company that will be on this well will be notified if the zone contains H₂S.
- B. Each service company must provide for the training and equipment of their employees before they arrive at the well site.
- C. Each service company will be expected to attend a well site

Emergency Equipment Requirements

1. **Well control equipment**

The well shall have hydraulic BOP equipment for the anticipated pressures. Equipment is to be tested on installation and follow Oxy Well Control standard, as well as 43 CFR part 3170 Subpart 3172.

Special control equipment:

- A. Hydraulic BOP equipment with remote control on ground.
Remotely operated choke.
- B. Rotating head
- C. Gas buster equipment shall be installed before drilling out of surface pipe.

2. **Protective equipment for personnel**

- A. Four (4) 30-minute positive pressure air packs (2 at each briefing area) on location.
- B. Adequate fire extinguishers shall be located at strategic locations.
- C. Radio / cell telephone communication will be available at the rig.
 - Rig floor and trailers.
 - Vehicle.

3. **Hydrogen sulfide sensors and alarms**

- A. H₂S sensor with alarms will be located on the rig floor, at the bell nipple, and at the flow line. These monitors will be set to alarm at 10 ppm with strobe light, and audible alarm.
- B. Hand operated detectors with tubes.
- C. H₂S monitor tester (to be provided by contract Safety Company.)
- D. There shall be one combustible gas detector on location at all times.

4. **Visual Warning Systems**

- A. One sign located at each location entrance with the following language:

**Caution – potential poison gas
Hydrogen sulfide
No admittance without authorization**

Wind sock – wind streamers:

- A. One 36” (in length) wind sock located at protection center, at height visible from rig floor.
- B. One 36” (in length) wind sock located at height visible from pit areas.

Condition flags

- A. One each condition flag to be displayed to denote conditions.

green – normal conditions

yellow – potential danger

red – danger, H2S present

- B. Condition flag shall be posted at each location sign entrance.

5. Mud Program

The mud program is designed to minimize the risk of having H2S and other formation fluids at surface. Proper mud weight and safe drilling practices will be applied. H2S scavengers will be used to minimize the hazards while drilling. Below is a summary of the drilling program.

Mud inspection devices:

Garrett gas train or hatch tester for inspection of sulfide concentration in mud system.

6. Metallurgy

- A. Drill string, casing, tubing, wellhead, blowout preventers, drilling spools or adapters, kill lines, choke manifold, lines and valves shall be suitable for the H2S service.
- B. All the elastomers, packing, seals and ring gaskets shall be suitable for H2S service.

7. Well Testing

No drill stem test will be performed on this well.

8. Evacuation plan

Evacuation routes should be established prior to well spud for each well and discussed with all rig personnel.

9. Designated area

- A. Parking and visitor area: all vehicles are to be parked at a predetermined safe distance from the wellhead.
- B. There will be a designated smoking area.
- C. Two briefing areas on either side of the location at the maximum allowable distance from the well bore so they offset prevailing winds perpendicularly, or at a 45-degree angle if wind direction tends to shift in the area.

Emergency procedures

- A. In the event of any evidence of H₂S level above 10 ppm, take the following steps:
 - 1. The Driller will pick up off bottom, shut down the pumps, slow down the pipe rotation.
 - 2. Secure and don escape breathing equipment, report to the upwind designated safe briefing / muster area.
 - 3. All personnel on location will be accounted for and emergency search should begin for any missing, the Buddy System will be implemented.
 - 4. Order non-essential personnel to leave the well site, order all essential personnel out of the danger zone and upwind to the nearest designated safe briefing / muster area.
 - 5. Entrance to the location will be secured to a higher level than our usual "Meet and Greet" requirement, and the proper condition flag will be displayed at the entrance to the location.
 - 6. Take steps to determine if the H₂S level can be corrected or suppressed and, if so, proceed as required.
- B. If uncontrollable conditions occur:
 - 1. Take steps to protect and/or remove any public in the down-wind area from the rig – partial evacuation and isolation. Notify necessary public safety personnel and appropriate regulatory entities (i.e. BLM) of the situation.

2. Remove all personnel to the nearest upwind designated safe briefing / muster area or off location.
3. Notify public safety personnel of safe briefing / muster area.
4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.
5. Proceed with best plan (at the time) to regain control of the well. Maintain tight security and safety procedures.

C. Responsibility:

1. Designated personnel.
 - a. Shall be responsible for the total implementation of this plan.
 - b. Shall be in complete command during any emergency.
 - c. Shall designate a back-up.

- All personnel:
1. On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw
 2. Check status of personnel (buddy system).
 3. Secure breathing equipment.
 4. Await orders from supervisor.

- Drill site manager:
1. Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.
 2. Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).
 3. Determine H₂S concentrations.
 4. Assess situation and take control measures.

- Tool pusher:
1. Don escape unit Report to up nearest upwind designated safe briefing / muster area.
 2. Coordinate preparation of individuals to return to point of release with tool pusher drill site manager (using the buddy system).
 3. Determine H₂S concentration.
 4. Assess situation and take control measures.

- Driller:
1. Don escape unit, shut down pumps, continue

- rotating DP.
 - 2. Check monitor for point of release.
 - 3. Report to nearest upwind designated safe briefing / muster area.
 - 4. Check status of personnel (in an attempt to rescue, use the buddy system).
 - 5. Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case of their absence.
 - 6. Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.
- Derrick man
- Floor man #1
- Floor man #2
- Mud engineer:
- 1. Will remain in briefing / muster area until instructed by supervisor.
- 1. Report to nearest upwind designated safe briefing / muster area.
 - 2. When instructed, begin check of mud for ph and H2S level. (Garett gas train.)
- Safety personnel:
- 1. Mask up and check status of all personnel and secure operations as instructed by drill site manager.

Taking a kick

When taking a kick during an H2S emergency, all personnel will follow standard Well control procedures after reporting to briefing area and masking up.

Open-hole logging

All unnecessary personnel off floor. Drill Site Manager and safety personnel should monitor condition, advise status and determine need for use of air equipment.

Running casing or plugging

Following the same “tripping” procedure as above. Drill Site Manager and safety personnel should determine if all personnel have access to protective equipment.

Ignition procedures

The decision to ignite the well is the responsibility of the operator (Oxy Drilling Management). The decision should be made only as a last resort and in a situation where it is clear that:

1. Human life and property are endangered.
2. There is no hope controlling the blowout under the prevailing conditions at the well.

Instructions for igniting the well

1. Two people are required for the actual igniting operation. They must wear self-contained breathing units and have a safety rope attached. One man (tool pusher or safety engineer) will check the atmosphere for explosive gases with the gas monitor. The other man is responsible for igniting the well.
2. Primary method to ignite: 25 mm flare gun with range of approximately 500 feet.
3. Ignite upwind and do not approach any closer than is warranted.
4. Select the ignition site best for protection, and which offers an easy escape route.
5. Before firing, check for presence of combustible gas.
6. After lighting, continue emergency action and procedure as before.
7. All unassigned personnel will remain in briefing area until instructed by supervisor or directed by the Drill Site Manager.

Remember: After well is ignited, burning hydrogen sulfide will convert to sulfur dioxide, which is also highly toxic. **Do not assume the area is safe after the well is ignited.**

Status check list

Note: All items on this list must be completed before drilling to production casing point.

1. H2S sign at location entrance.
2. Two (2) wind socks located as required.
3. Four (4) 30-minute positive pressure air packs (2 at each Briefing area) on location for all rig personnel and mud loggers.
4. Air packs inspected and ready for use.
5. Cascade system and hose line hook-up as needed.
6. Cascade system for refilling air bottles as needed.
7. Condition flag on location and ready for use.
8. H2S detection system hooked up and tested.
9. H2S alarm system hooked up and tested.
10. Hand operated H2S detector with tubes on location.
11. 1 – 100' length of nylon rope on location.
12. All rig crew and supervisors trained as required.
13. All outside service contractors advised of potential H2S hazard on well.
14. No smoking sign posted and a designated smoking area identified.
15. Calibration of all H2S equipment shall be noted on the IADC report.

Checked by: _____ Date: _____

Procedural check list during H2S events

Perform each tour:

1. Check fire extinguishers to see that they have the proper charge.
2. Check breathing equipment to ensure that it is in proper working order.
3. Make sure all the H2S detection system is operative.

Perform each week:

1. Check each piece of breathing equipment to make sure that demand or forced air regulator is working. This requires that the bottle be opened and the mask assembly be put on tight enough so that when you inhale, you receive air or feel air flow.
2. BOP skills (well control drills).
3. Check supply pressure on BOP accumulator stand by source.
4. Check breathing equipment mask assembly to see that straps are loosened and turned back, ready to put on.
5. Check pressure on breathing equipment air bottles to make sure they are charged to full volume. (Air quality checked for proper air grade "D" before bringing to location)
6. Confirm pressure on all supply air bottles.
7. Perform breathing equipment drills with on-site personnel.
8. Check the following supplies for availability.
 - A. Emergency telephone list.
 - B. Hand operated H2S detectors and tubes.

General evacuation plan

1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H2S gas cannot be limited to the well location and the public will be involved, he will activate the evacuation plan.
2. Drill Site Manager or designee will notify local government agency that a hazardous condition exists and evacuation needs to be implemented.
3. Company or contractor safety personnel that have been trained in the use of H2S detection equipment and self-contained breathing equipment will monitor H2S concentrations, wind directions, and area of exposure. They will delineate the outer perimeter of the hazardous gas area. Extension to the evacuation area will be determined from information gathered.
4. Law enforcement personnel (state police, police dept., fire dept., and sheriff's dept.) Will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.
5. After the discharge of gas has been controlled, company safety personnel will determine when the area is safe for re-entry.

Important: Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.

Emergency actions

Well blowout – if emergency

1. Evacuate all personnel to “Safe Briefing / Muster Areas” or off location if needed.
2. If sour gas – evacuate rig personnel.
3. If sour gas – evacuate public within 3000 ft radius of exposure.
4. Don SCBA and shut well in if possible using the buddy system.
5. Notify Drilling Superintendent and call 911 for emergency help (fire dept and ambulance) if needed.
6. Implement the Blowout Contingency Plan, and Drilling Emergency Action Plan.
6. Give first aid as needed.

Person down location/facility

1. If immediately possible, contact 911. Give location and wait for confirmation.
2. Don SCBA and perform rescue operation using buddy system.

Toxic effects of hydrogen sulfide

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity – 1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in table i. Physical effects at various hydrogen sulfide exposure levels are shown in table ii.

Table i
Toxicity of various gases

Common name	Chemical formula	Specific gravity (sc=1)	Threshold limit (1)	Hazardous limit (2)	Lethal concentration (3)
Hydrogen Cyanide	Hcn	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So2	2.21	5 ppm	-	1000 ppm
Chlorine	Cl2	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	Co2	1.52	5000 ppm	5%	10%
Methane	Ch4	0.55	90,000 ppm	Combustible above 5% in air	

- 1) threshold limit – concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.
- 2) hazardous limit – concentration that will cause death with short-term exposure.
- 3) lethal concentration – concentration that will cause death with short-term exposure.

Toxic effects of hydrogen sulfide

Table ii
Physical effects of hydrogen sulfide

Percent (%)	Ppm	Concentration Grains 100 std. Ft3*	Physical effects
0.001	<10	00.65	Obvious and unpleasant odor.

0.002	10	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kill smell in 3 – 15 minutes. May sting eyes and throat.
0.020	200	12.96	Kills smell shortly; stings eyes and throat.
0.050	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; followed by death within minutes.

*at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
2. SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
3. Anyone who may use the SCBA's shall be trained in how to insure proper face-piece to face seal. They shall wear SCBA's in normal air and then wear them in a test atmosphere. (note: such items as facial hair {beard or sideburns} and eyeglasses will not allow proper seal.) Anyone that may be reasonably expected to wear SCBA's should have these items removed before entering a toxic atmosphere. A special mask must be obtained for anyone who must wear eyeglasses or contact lenses.
4. Maintenance and care of SCBA's:
 - a. A program for maintenance and care of SCBA's shall include the following:
 1. Inspection for defects, including leak checks.
 2. Cleaning and disinfecting.
 3. Repair.
 4. Storage.
 - b. Inspection, self-contained breathing apparatus for emergency use shall be inspected monthly.
 1. Fully charged cylinders.
 2. Regulator and warning device operation.
 3. Condition of face piece and connections.
 4. Rubber parts shall be maintained to keep them pliable and prevent deterioration.
 - c. Routinely used SCBA's shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
5. Persons assigned tasks that requires use of self-contained breathing equipment shall be certified physically fit (medically cleared) for breathing equipment usage at least annually.
6. SCBA's should be worn when:
 - A. Any employee works near the top or on top of any tank unless test reveals less than 10 ppm of H₂S.

- B. When breaking out any line where H₂S can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H₂S exists.
- D. When working in areas where over 10 ppm H₂S has been detected.
- E. At any time there is a doubt as to the H₂S level in the area to be entered.

Rescue
First aid for H₂S poisoning

Do not panic!

Remain calm – think!

1. Don SCBA breathing equipment.
2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
3. Briefly apply chest pressure – arm lift method of artificial respiration to clean the victim's lungs and to avoid inhaling any toxic gas directly from the victim's lungs.
4. Provide for prompt transportation to the hospital, and continue giving artificial respiration if needed.
5. Hospital(s) or medical facilities need to be informed, before-hand, of the possibility of H₂S gas poisoning – no matter how remote the possibility is.
6. Notify emergency room personnel that the victim(s) has been exposed to H₂S gas.

Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012



SITE PLAN

LSTTNK_T22SR32E_0401
SEC. 4 TWP. 22-S RGE. 32-E
SURVEY: N.M.P.M.
COUNTY: LEA

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

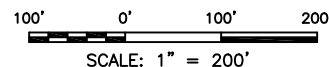
FAA PERMIT NEEDED: NO

TANK BATTERY

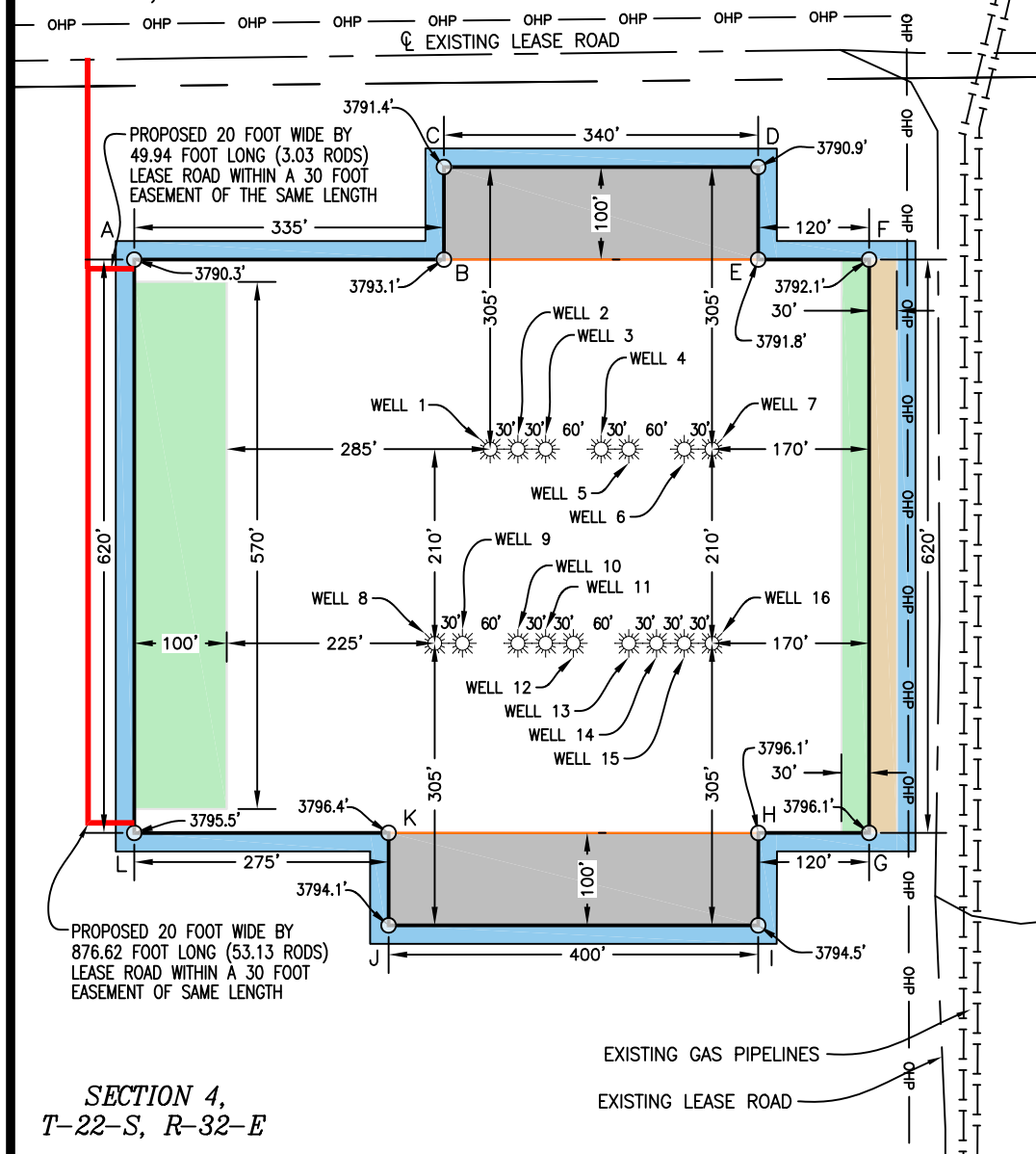
RECLAMATION

30' TOP SOIL

20' DISTURBANCE AREA



SECTION 33,
T-21-S, R-32-E



SECTION 4,
T-22-S, R-32-E

04/12/2022	10/10/2022
DATE SURVEYED	DATE DRAWN

2	10/10/2022	ANC
REV.	DATE	BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE
PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL
BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS
UTILIZING A COMBINED SCALE FACTOR OF 0.99977749 CONVERGENCE
ANGLE OF 0.34916111")

LEGEND

LEGEND			
— — — — —	EXISTING ROAD	— OHP —	OVERHEAD POWER
— — — — —	PROPOSED ROAD	— X — X —	FENCE
— — — — —	SURFACE SITE EDGE	— — — — —	SECTION LINE
— — — — —	EXIST. PIPELINE	— PL —	PROPERTY LINE
		— W —	WATER LINE
		— SWD —	SALT WATER LINE

MONUMENT QUARTER SPLIT

Released to Imaging: 11/3/2024 3:18:58 PM

OCTOBER 26, 2022

LLOYD P. SHORT 21653



PREPARED BY:
R-SQUARED GLOBAL, LLC
510 TRENTON ST. UNIT B
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. R4247_001
SHEET 1 OF 2



SITE PLAN

LSTTNK T22SR32E 0401
 SEC. 4 TWP. 22-S RGE. 32-E
 SURVEY: N.M.P.M.
 COUNTY: LEA
 OPERATOR: OXY USA, INC.
 U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.
 FAA PERMIT NEEDED: NO

WELL 1
 GOLD LOG 4.9 FED COM 11H
 OXY USA, INC.
 396' FNL 1076' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741436.89' / Y:519618.70'
 LAT:32.42682875N / LON:103.68481018W
 NAD 27, SPCS NM EAST
 X:7000254.87' / Y:519557.84'
 LAT:32.42670606N / LON:103.68432116W
 ELEVATION = 3795'

WELL 2
 GOLD LOG 4.9 FED COM 12H
 OXY USA, INC.
 397' FNL 1106' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741466.89' / Y:519618.70'
 LAT:32.42682825N / LON:103.68471295W
 NAD 27, SPCS NM EAST
 X:700284.87' / Y:519557.84'
 LAT:32.42670556N / LON:103.68422394W
 ELEVATION = 3795'

WELL 3
 GOLD LOG 4.9 FED COM 13H
 OXY USA, INC.
 397' FNL 1136' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741496.89' / Y:519618.70'
 LAT:32.42682775N / LON:103.68461573W
 NAD 27, SPCS NM EAST
 X:700314.87' / Y:519557.84'
 LAT:32.42670506N / LON:103.68412672W
 ELEVATION = 3794'

WELL 4
 GOLD LOG 4.9 FED COM 1H
 OXY USA, INC.
 398' FNL 1196' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741556.89' / Y:519618.70'
 LAT:32.42682675N / LON:103.68442128W
 NAD 27, SPCS NM EAST
 X:700374.87' / Y:519557.84'
 LAT:32.42670405N / LON:103.68393228W
 ELEVATION = 3797'

WELL 5
 GOLD LOG 4.9 FED COM 2H
 OXY USA, INC.
 398' FNL 1226' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741586.89' / Y:519618.70'
 LAT:32.42682625N / LON:103.68432405W
 NAD 27, SPCS NM EAST
 X:700404.87' / Y:519557.84'
 LAT:32.42670355N / LON:103.6833506W
 ELEVATION = 3795'

WELL 6
 GOLD LOG 4.9 FED COM 71H
 OXY USA, INC.
 399' FNL 1286' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741646.89' / Y:519618.70'
 LAT:32.42682525N / LON:103.68412960W
 NAD 27, SPCS NM EAST
 X:700464.87' / Y:519557.84'
 LAT:32.42670255N / LON:103.68364061W
 ELEVATION = 3797'

WELL 7
 GOLD LOG 4.9 FED COM 72H
 OXY USA, INC.
 399' FNL 1316' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741676.89' / Y:519618.70'
 LAT:32.42682475N / LON:103.68403238W
 NAD 27, SPCS NM EAST
 X:700494.87' / Y:519557.84'
 LAT:32.42670205N / LON:103.68354339W
 ELEVATION = 3797'

WELL 8
 GOLD LOG 4.9 FED COM 41H
 OXY USA, INC.
 606' FNL 1014' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741376.89' / Y:519408.70'
 LAT:32.42625254N / LON:103.68500876W
 NAD 27, SPCS NM EAST
 X:700194.87' / Y:519347.85'
 LAT:32.42612984N / LON:103.68451976W
 ELEVATION = 3797'

WELL 9
 GOLD LOG 4.9 FED COM 42H
 OXY USA, INC.
 606' FNL 1044' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741406.89' / Y:519408.70'
 LAT:32.42625204N / LON:103.68491153W
 NAD 27, SPCS NM EAST
 X:700224.87' / Y:519347.85'
 LAT:32.42612334N / LON:103.68442254W
 ELEVATION = 3797'

WELL 10
 GOLD LOG 4.9 FED COM 21H
 OXY USA, INC.
 607' FNL 1104' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741466.89' / Y:519408.70'
 LAT:32.42625104N / LON:103.68471708W
 NAD 27, SPCS NM EAST
 X:700284.86' / Y:519347.85'
 LAT:32.42612834N / LON:103.68422810W
 ELEVATION = 3794'

WELL 11
 GOLD LOG 4.9 FED COM 22H
 OXY USA, INC.
 607' FNL 1134' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741496.89' / Y:519408.70'
 LAT:32.42625054N / LON:103.68461986W
 NAD 27, SPCS NM EAST
 X:700314.86' / Y:519347.85'
 LAT:32.42612784N / LON:103.68413087W
 ELEVATION = 3797'

WELL 12
 GOLD LOG 4.9 FED COM 23H
 OXY USA, INC.
 607' FNL 1164' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741526.89' / Y:519408.70'
 LAT:32.42625004N / LON:103.68452264W
 NAD 27, SPCS NM EAST
 X:700344.86' / Y:519347.85'
 LAT:32.42612734N / LON:103.68403365W
 ELEVATION = 3797'

WELL 13
 GOLD LOG 4.9 FED COM 31H
 OXY USA, INC.
 608' FNL 1224' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741586.89' / Y:519408.70'
 LAT:32.42624904N / LON:103.68432819W
 NAD 27, SPCS NM EAST
 X:700404.86' / Y:519347.85'
 LAT:32.42612634N / LON:103.68383921W
 ELEVATION = 3797'

WELL 14
 GOLD LOG 4.9 FED COM 311H
 OXY USA, INC.
 608' FNL 1254' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741616.89' / Y:519408.70'
 LAT:32.42624854N / LON:103.68423096W
 NAD 27, SPCS NM EAST
 X:700434.86' / Y:519347.85'
 LAT:32.42612583N / LON:103.68374200W
 ELEVATION = 3797'

WELL 15
 GOLD LOG 4.9 FED COM 32H
 OXY USA, INC.
 608' FNL 1284' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741646.89' / Y:519408.70'
 LAT:32.42624803N / LON:103.68413374W
 NAD 27, SPCS NM EAST
 X:700464.86' / Y:519347.85'
 LAT:32.42612533N / LON:103.68364477W
 ELEVATION = 3797'

WELL 16
 GOLD LOG 4.9 FED COM 33H
 OXY USA, INC.
 609' FNL 1314' FWL, SECTION 4
 NAD 83, SPCS NM EAST
 X:741676.89' / Y:519408.70'
 LAT:32.42624753N / LON:103.68403652W
 NAD 27, SPCS NM EAST
 X:700494.86' / Y:519347.85'
 LAT:32.42612483N / LON:103.68354755W
 ELEVATION = 3796'

04/12/2022	10/10/2022
DATE SURVEYED	DATE DRAWN

2	10/10/2022	ANC
REV.	DATE	BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977749 CONVERGENCE ANGLE OF 0.34916111°)

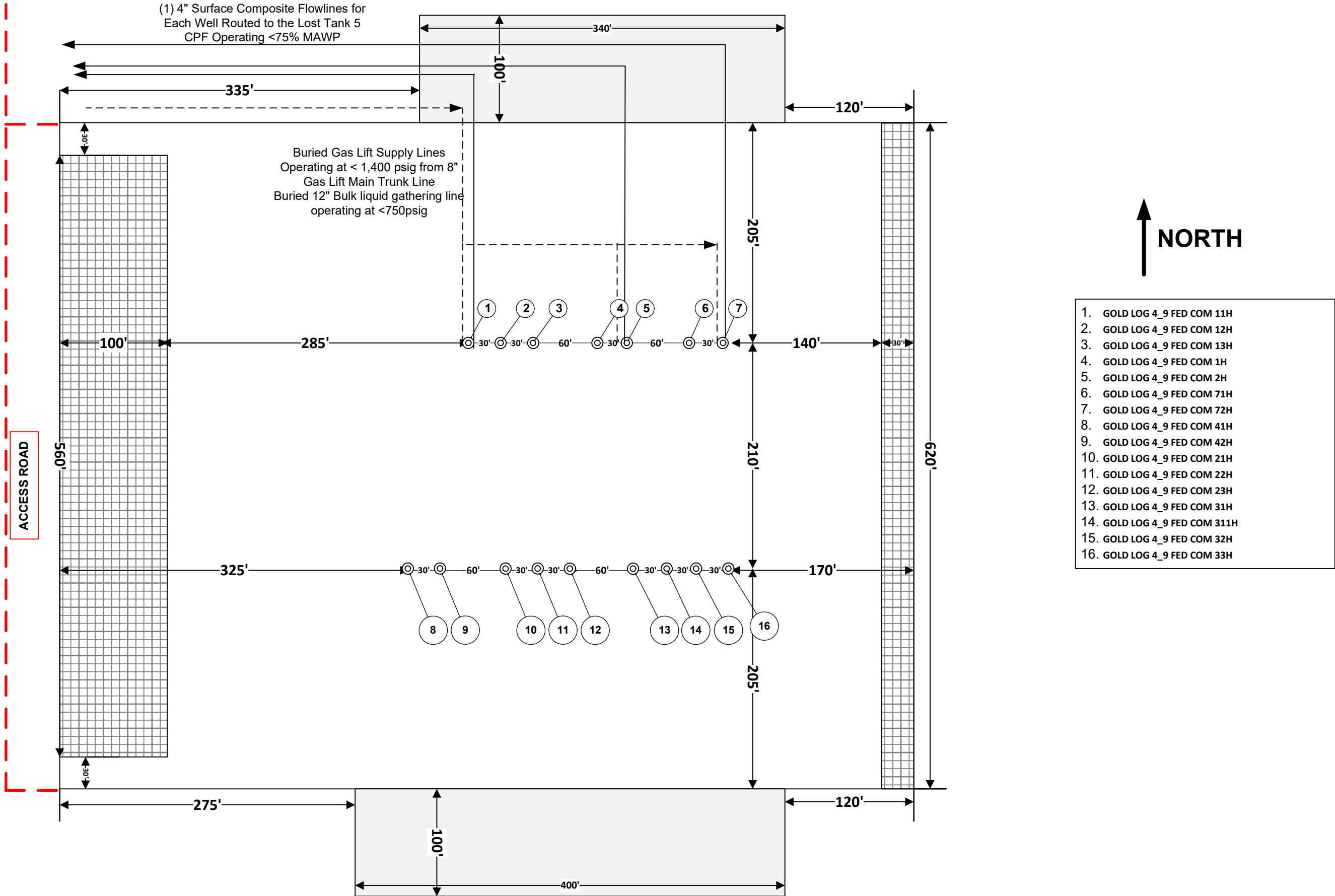
LEGEND			
— — — — —	EXISTING ROAD	— — — — —	OHP — — — — — OVERHEAD POWER
— — — — —	PROPOSED ROAD	— x — — — — x —	FENCE
— — — — —	SURFACE SITE EDGE	— — — — —	SECTION LINE
— — — — —	EXIST. PIPELINE	— — — — —	PROPERTY LINE
— — — — —		— w — — — — w —	WATER LINE
— — — — —		— SWD — — — — SWD —	SALT WATER LINE
●	MONUMENT	●	QUARTER SPLIT

OCTOBER 26, 2022

LLOYD P. SHORT 21653

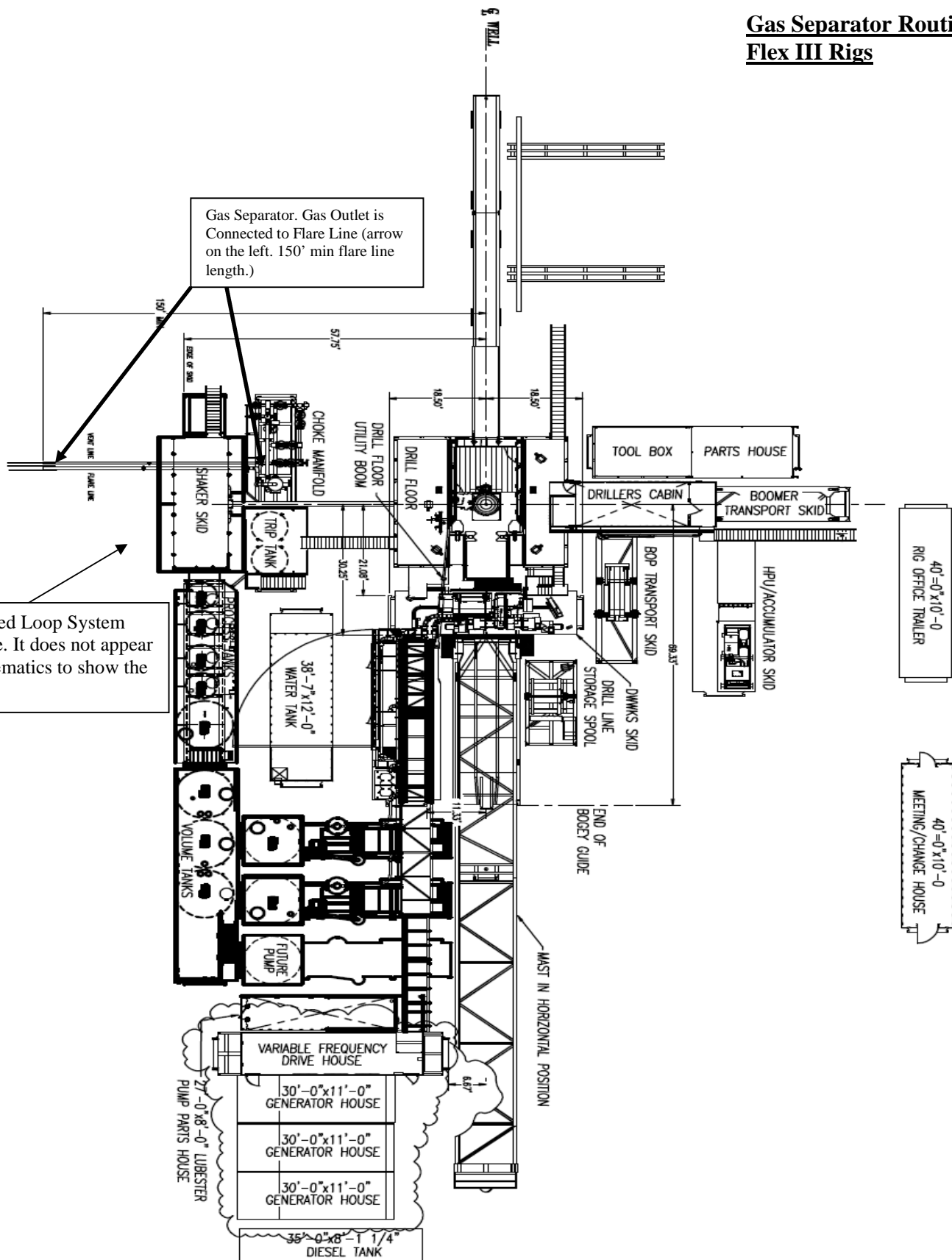


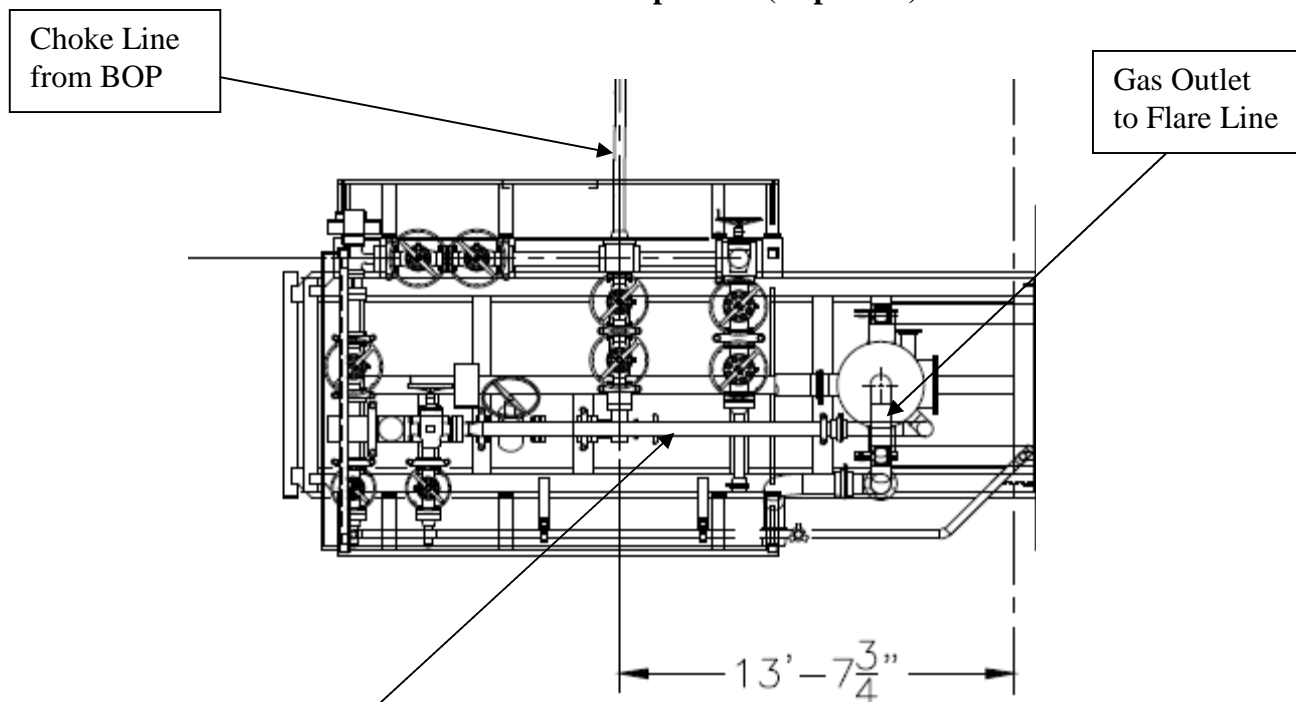
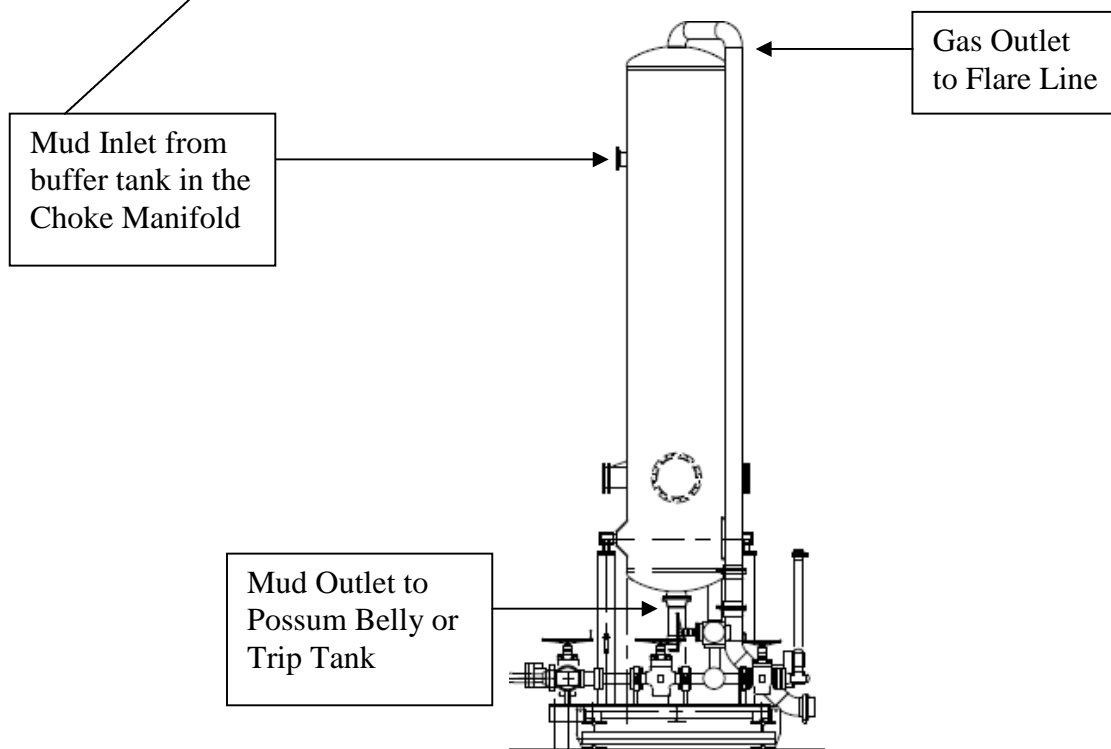
PREPARED BY:
 R-SQUARED GLOBAL, LLC
 510 TRENTON ST. UNIT B
 WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. R4247_001
 SHEET 2 OF 2



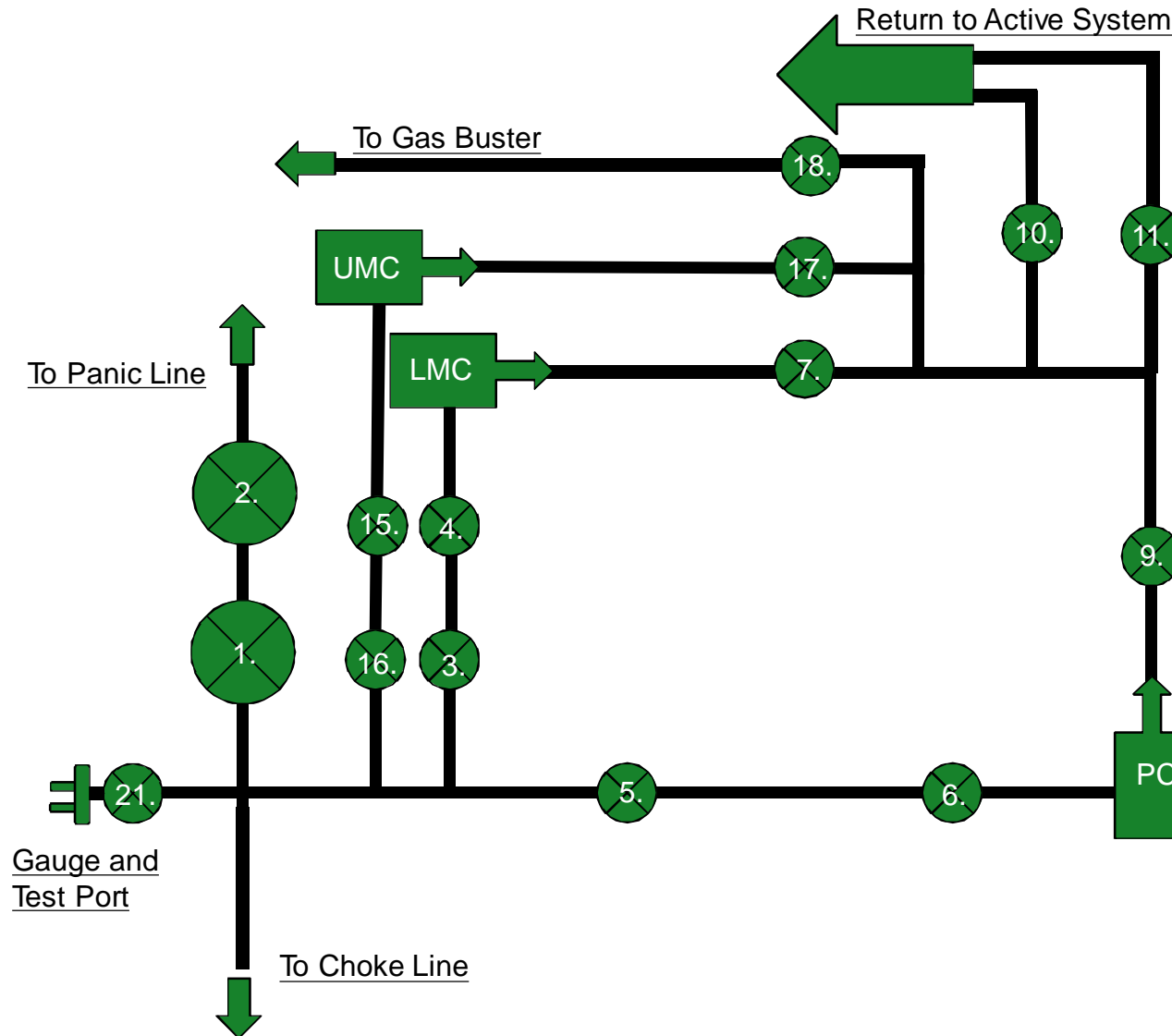
REVISION BLOCK						ENGINEERING RECORD		PAD 0401 RIG DIAGRAM V-DOOR EAST GOLD LOG 4_9 FED COM 11H, 12H, 13H, 1H, 2H, 71H, 72H, 41H, 42H, 21H, 22H, 23H, 31H, 311H, 32H, 33H SECTION 4, TOWNSHIP 22S, RANGE 32E LEA COUNTY, NEW MEXICO
NO.	DATE	DESCRIPTION				BY	DATE	
						DM	11/21/2022	

Gas Separator Routing Flex III Rigs



Choke Manifold – Gas Separator (Top View)**Choke Manifold – Gas Separator (Side View)**

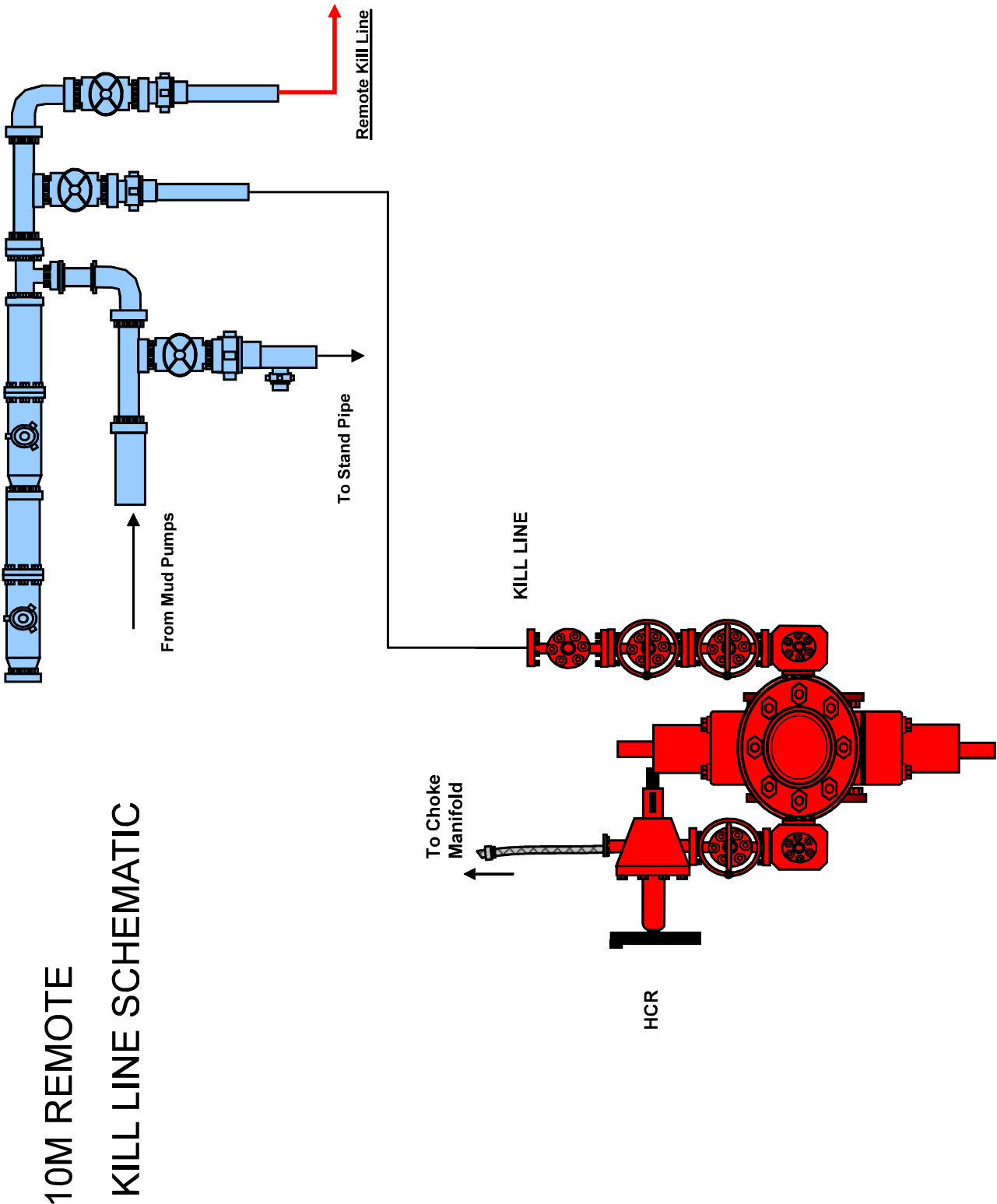
10M Choke Panel



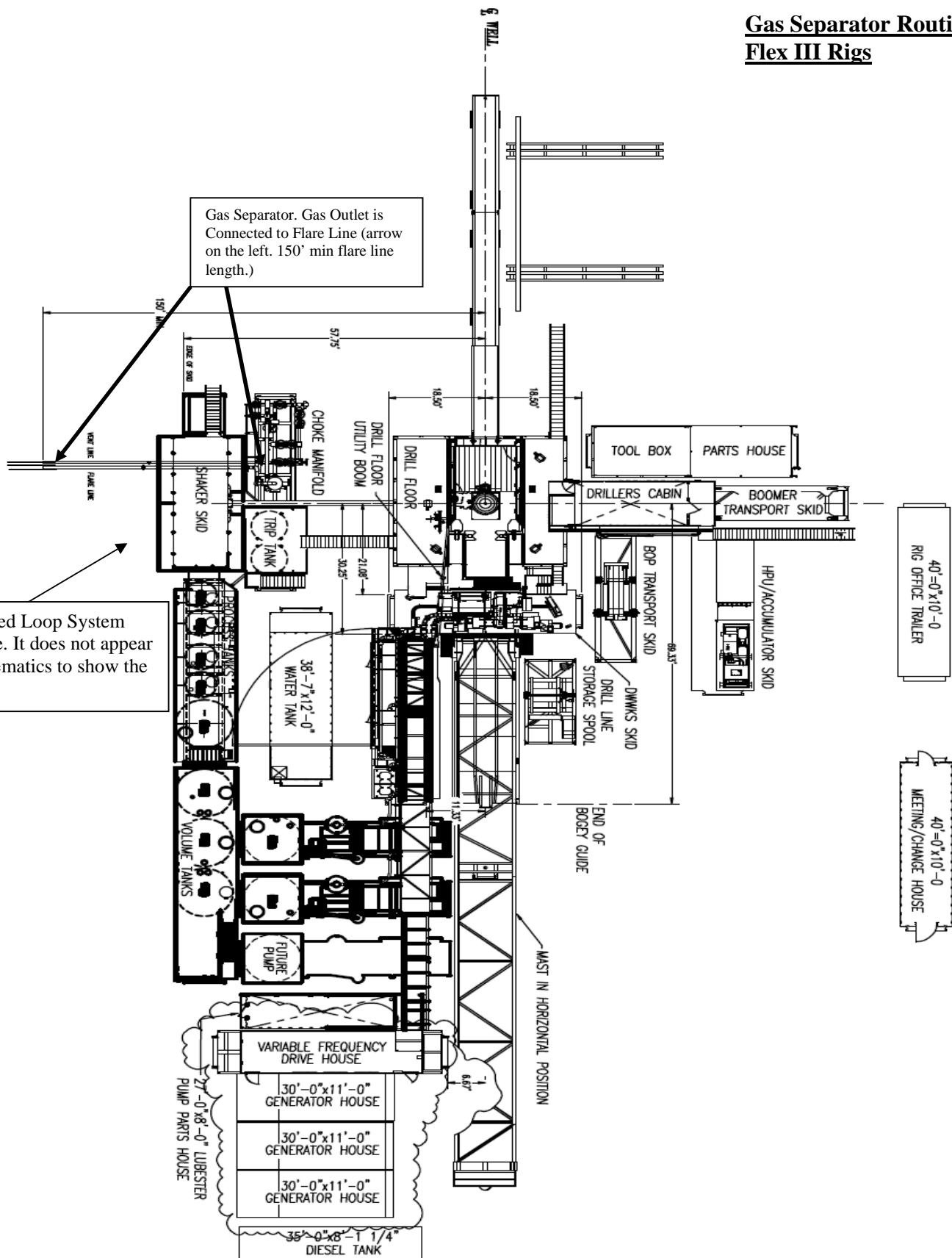
1. Choke Manifold Valve
2. Choke Manifold Valve
3. Choke Manifold Valve
4. Choke Manifold Valve
5. Choke Manifold Valve
6. Choke Manifold Valve
7. Choke Manifold Valve
8. PC – Power Choke
9. Choke Manifold Valve
10. Choke Manifold Valve
11. Choke Manifold Valve
12. LMC – Lower Manual Choke
13. UMC – Upper manual choke
15. Choke Manifold Valve
16. Choke Manifold Valve
17. Choke Manifold Valve
18. Choke Manifold Valve

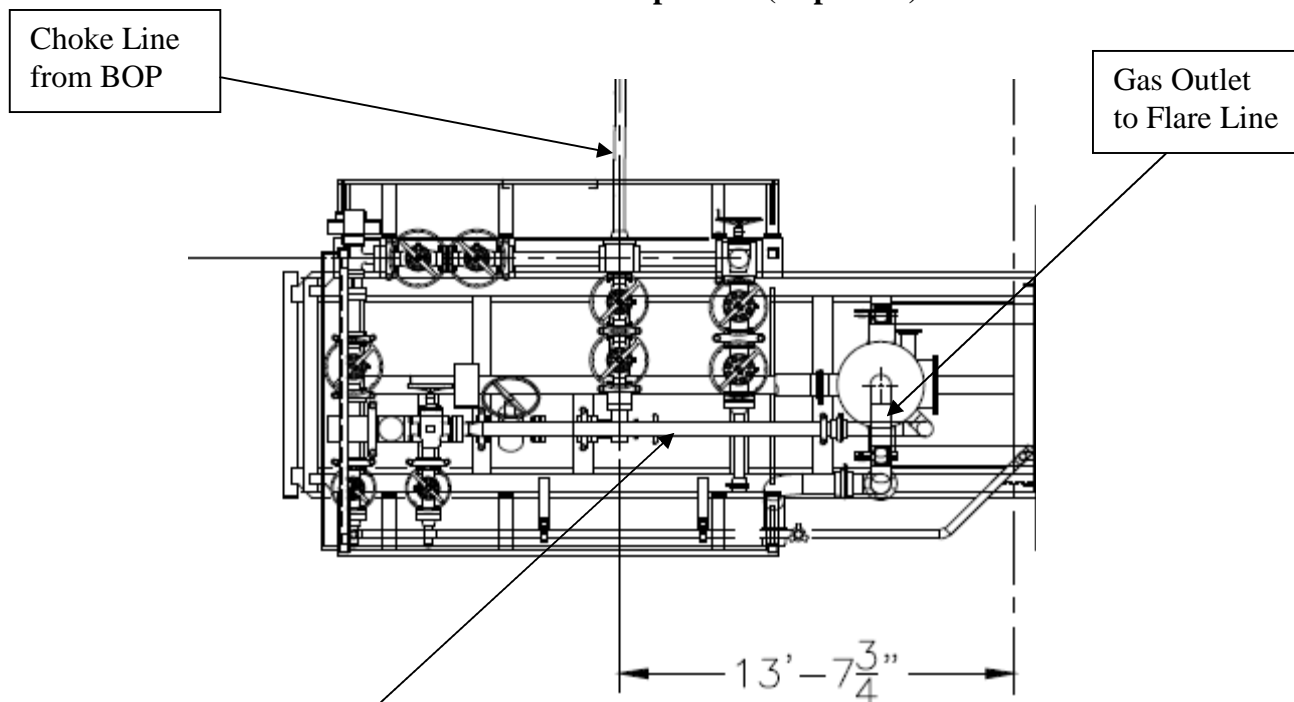
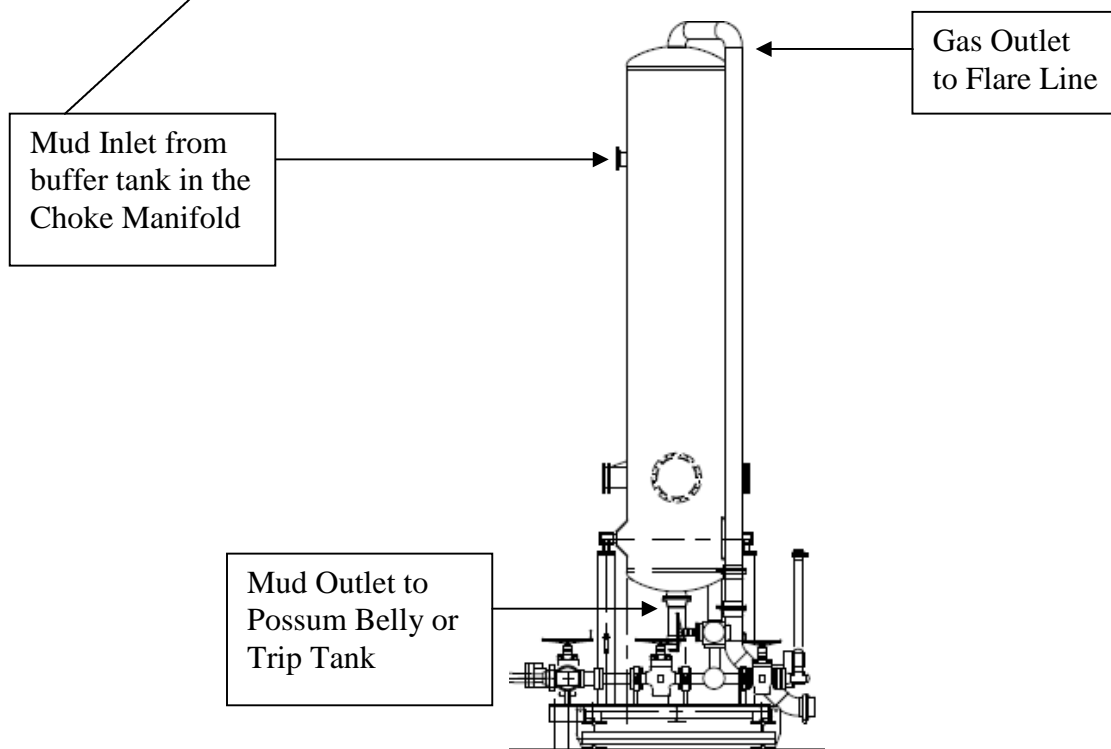
21. Vertical Choke Manifold Valve

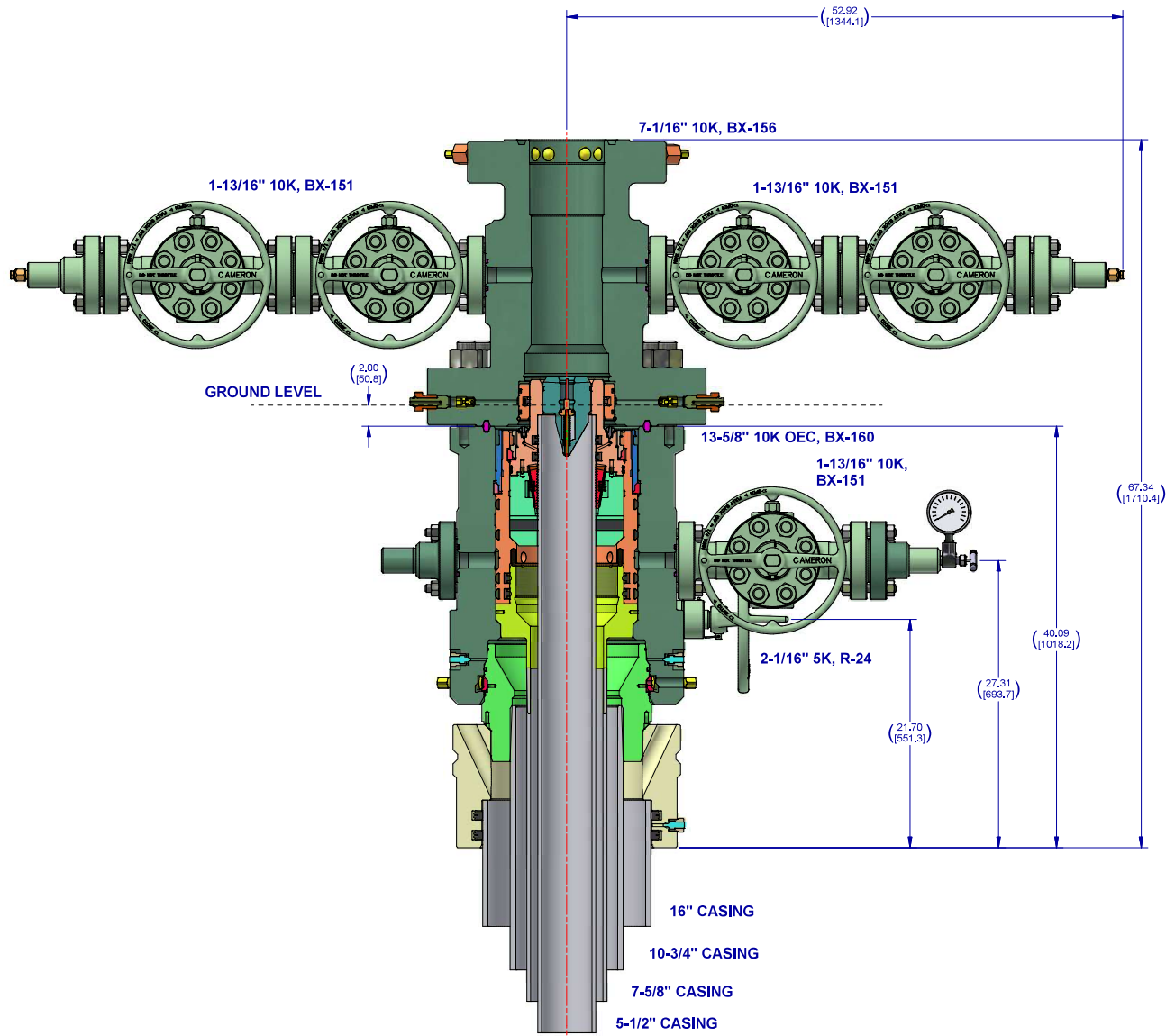
***All Valves 3" minimum**



Gas Separator Routing Flex III Rigs




Choke Manifold – Gas Separator (Top View)**Choke Manifold – Gas Separator (Side View)**



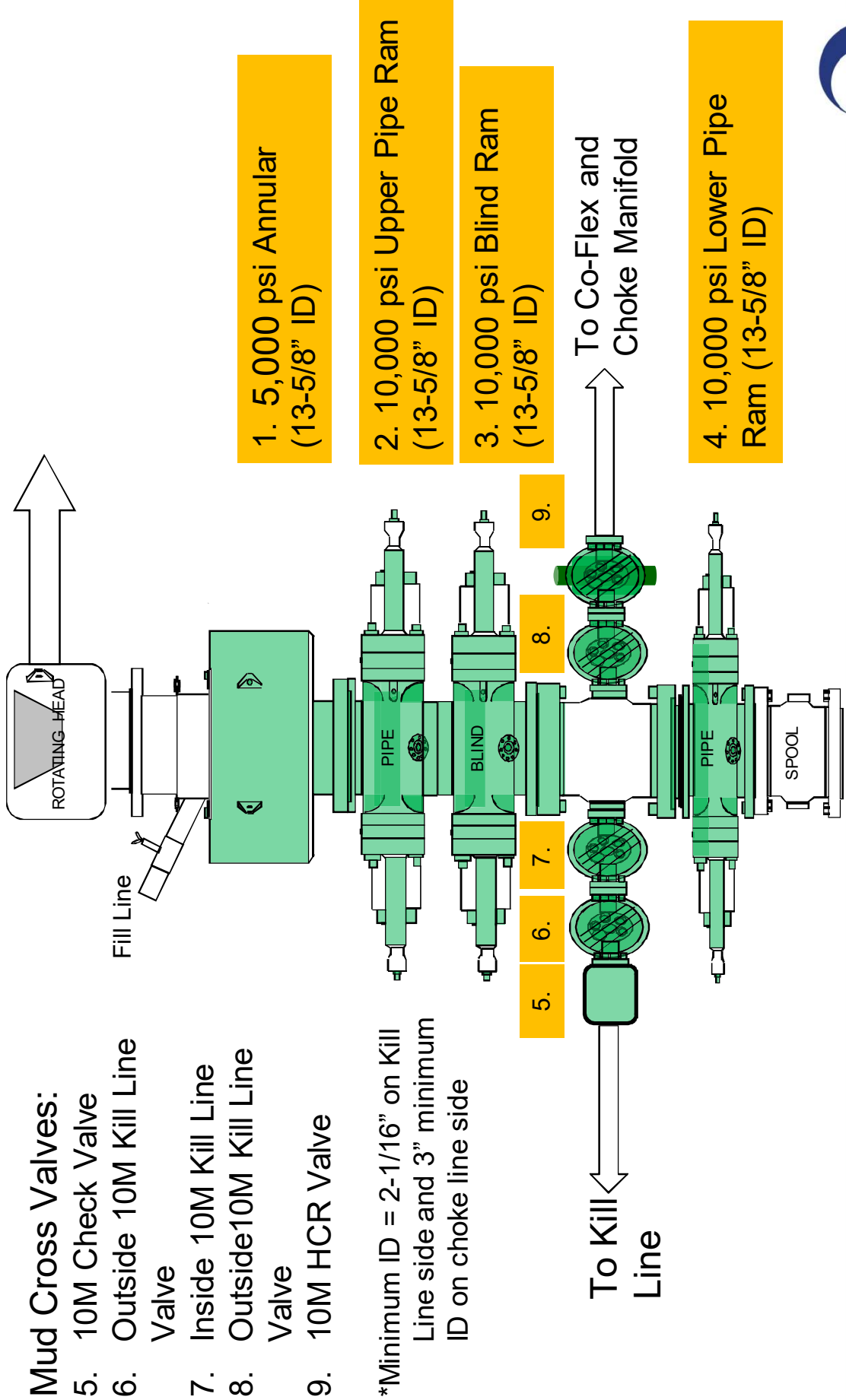
Notes:

1. THIS IS A PROPOSAL DRAWING AND DIMENSIONS SHOWN ARE SUBJECT TO CHANGE DURING THE FINAL DESIGN PROCESS.

2. DIGITALLY ENABLED SOLUTIONS, CHOKES AND ESD'S AVAILABLE ON REQUEST

CONFIDENTIAL					
SURFACE TREATMENT	DO NOT SCALE		 CAMERON A Schlumberger Company	SURFACE SYSTEMS	
MATERIAL & HEAT TREAT	DRAWN BY	DATE			
	D. GOTTUNG	2 Dec 21			
	CHECKED BY	DATE			
	D. GOTTUNG	2 Dec 21			
	APPROVED BY	DATE			
	D. GOTTUNG	2 Dec 21			
ESTIMATED WEIGHT:	6515.617 LBS			INTERNAL USE BOM	
	7055.434 KG				
SHEET	4 of 4	SD-053434-94-05	REV: 01		

5/10M BOP Stack





Certificate of Conformity

ContiTech

Certificate Number H100161	COM Order Reference 1429702	Customer Name & Address	
Customer Purchase Order No: 740382384		HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA	
Project:			
Test Center Address	Accepted by COM Inspection		Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Date: 06/27/22	Gerson Mejia-Lazo 	

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

Item	Part No.	Description	Qty	Serial Number	Specifications
30	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70024	ContiTech Standard

ContiTech Oil Marine Corp.

11535 Brittmoore Park Drive Houston, TX 77041, USA

Internal

Hydrostatic Test Certificate



ContiTech

Certificate Number H100161	COM Order Reference 1429702	Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA
Customer Purchase Order No: 740382384		
Project:		
Test Center Address ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Accepted by COM Inspection Signed: Gerson Mejia-Lazo Date: 06/27/22	Accepted by Client Inspection

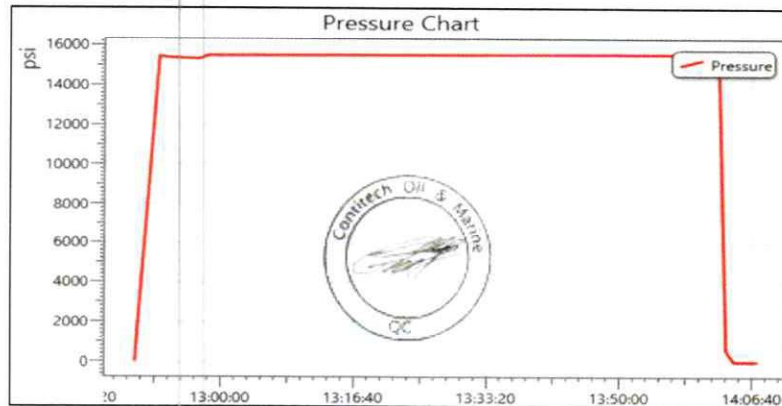
We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

Item	Part No.	Description	Qty	Serial Number	Work. Press. (psi)	Test Press. (psi)	Test Time (minutes)
------	----------	-------------	-----	---------------	--------------------	-------------------	---------------------

30	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70024	10,000	15,000	60
----	-----------------	--	---	-------	--------	--------	----

Record Information	
Start Time	6/8/2022 12:49:19
End Time	6/8/2022 14:07:25
Interval	00:01:00
Number	79
MaxValue	15762
MinValue	-7
AvgValue	14395
RecordName	70024-sh
RecordNumber	235

Gauge Information	
Model	ADT680
SN	21817380014
Range	(0-40000)psi
Unit	psi



ContiTech Oil Marine Corp.

11535 Brittmoore Park Drive Houston, TX 77041, USA

Internal

SIGNATURE: *Norma Cobb*
 TITLE: QUALITY ASSURANCE
 DATE: 11/20/2019

CUSTOMER: A-7 AUSTIN INC DBA AUSTIN HOSE
 CUSTOMERS P.O.#: 4128128 (RIG 1 PO 002773)
 CUSTOMER P/N: 10KFR3.012.0CK411610KFIXXFLT SSA SC LE
 PART DESCRIPTION: 3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL ARMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE CLAMPS
 SALES ORDER #: 516982
 QUANTITY: 1
 SERIAL #: H2-112019-4

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

CERTIFICATE OF CONFORMANCE

EMAIL: Troy.Schmidt@gates.com

FAX:

PHONE : (281) 602-4119

Houston, TX. 77086

7603 Prairie Oak Dr.

Gates Engineering & Services North America



THIS WROTE 23/22
 IN USE
 AS

02.9
 130021
 2019
 CHOKES
 HOSE



Revision 1_022819

PRODUCTION
11/20/2019
<i>[Signature]</i>

Production:
Date :
Signature :

QUALITY
11/20/2019
<i>[Signature]</i>

F-PRD-005

Quality:
Date :
Signature :

Gates Engineering & Services North America certifies that:

The following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment and instrumentation that has been calibrated in accordance with the requirements set forth in the GESNA management system.

Customer: Customer Ref.: Invoice No.:	A-7 AUSTIN INC DBA AUSTIN HOSE 4128128 (RIG 1 PO 002773) 516982	End Fitting 1: Grade Star No.: CUSTOMER P/N:	4 1/16 10K FLANGES FIXED 68903010-9879429 10KFR3.012.0CK411610KFIXFLT 55A 5C LE
Product Description: 3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL ARMOR C/W 4 1/16 10K FIX X FLOAT H25 SUITED FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE CLAMPS			
Test Date: Hose Serial No.: Created By:	11/20/2019 H2-112019-4 Norma Cabrera	End Fitting 2: Assembly Code: Test Pressure: Working Pressure:	4 1/16 10K FLANGES FLOAT L41242 113018 15,000 PSI. 10,000 PSI.

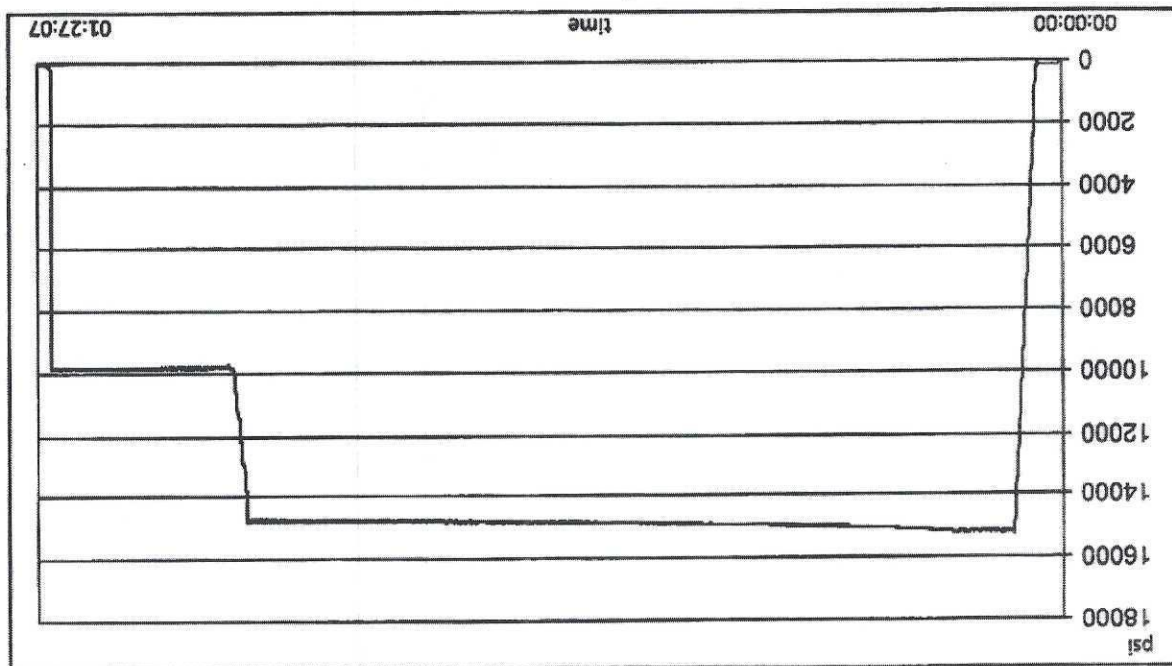
PRESSURE TEST CERTIFICATE

PHONE: (281) 602 - 4119
FAX:
EMAIL: Troy.Schmidt@gates.com
WEB: www.gates.com

GATES ENGINEERING & SERVICES NORTH AMERICA

7603 Prairie Oak Dr.
Houston, TX 77086





Test operator: Roderick Shambra

Length measurement result:

Pressure test result: PASS

Visual check:

Length difference:

0.24 inch

Length difference:

0.00 %

Work pressure hold:

900.00 sec

Work pressure:

9750.00 psi

Test pressure hold:

3600.00 sec

Test pressure:

15000.00 psi

Test procedure:

GTS-04-053

TEST INFORMATION

Customer reference:

516982

Production description:

Austin Hose

Company:

TEST OBJECT

Serial number:

H2-112019-4

Lot number:

L41242113018

Description:

3.0 10K MS C&K

Hose ID:

3.0 x 4-1/16 10K

Description:

3.0 x 4-1/16 10K

Fitting 2:

0.00 %

Part number:

Length:

12

feet

Pressure test result: PASS

Length measurement result:

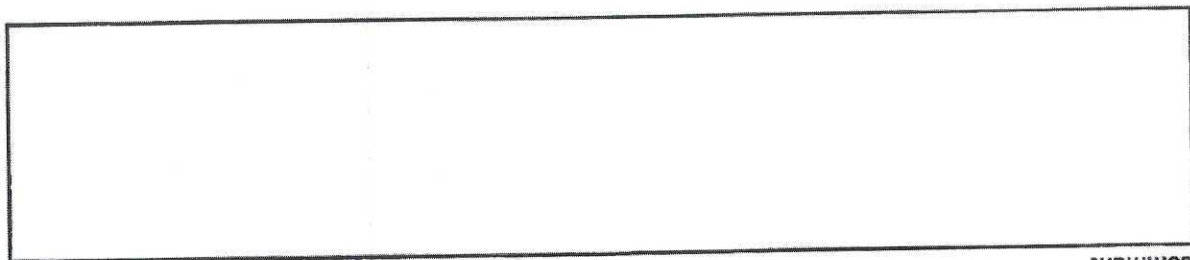
Test operator: Roderick Shambra

TEST REPORT



11/20/2019 12:13:07 PM

H2-1987



Comment

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCLO	2019-03-17	2020-03-15
S-25-A-W	110APO2K	2019-04-16	2020-04-14

GAUGE TRACEABILITY



TEST REPORT

11/20/2019 12:13:07 PM

H2-1987

Rev Date: 12/17/2019
Rev Date: 12/17/2019Garrett Crawford, Director of Quality
DW Industries Inc.

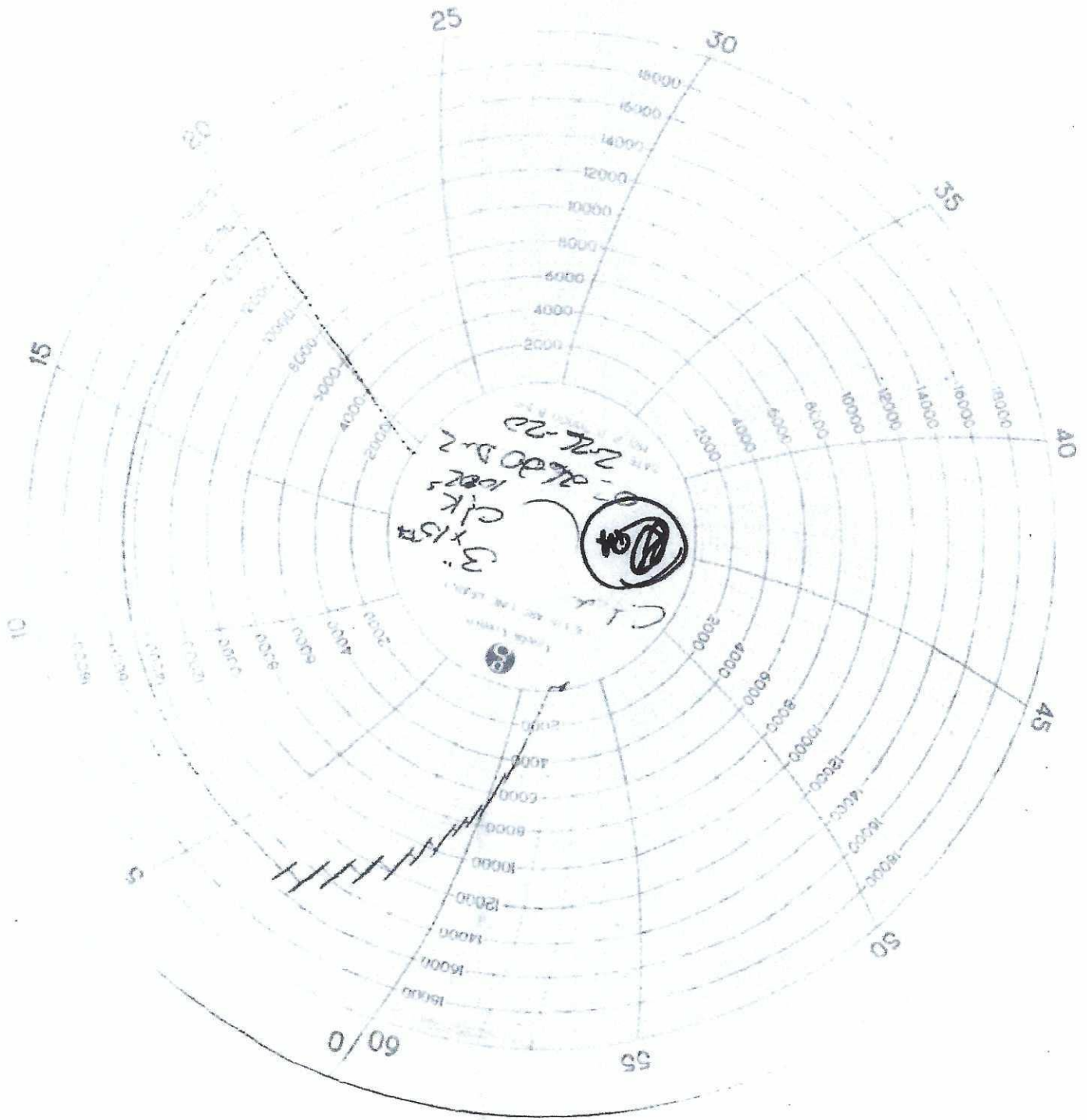
Certificate Issue Date: 2/27/2020

I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Purchase Order Information				Customer Name:	
Customer Part Number:	OA-5640-4815-1002-4	Part Description:	3" 10,000 psi WP CHOKE HOSE M X F 4" 1002 HAMMER UNIONS C/W CLAMPS	CITADEL DRILLING Customer Contact: PAUL HOFFMAN 432-241-5360	
QTY Ordered:	1	Assembly Date:	02/26/2020		
DW Industries Part Number:	OA-5640-4815-1002-4	Serial Number:	022620DW-2		
Customer Purchase Order Number:	CONTACT PAUL HOFFMAN FOR INFO	DW Industries Work Order Number:	20020163		

DW INDUSTRIES INC.
6287 Long Drive
Houston, TX 77087
Tel. 713 644-8372 Fax 713-644-4947

COPY
Certificate of Performance



COPY

QP-018-OF, Rev New
Rev Date: 12/17/2019Garrett Crawford, Director of Quality
DW Industries Inc.

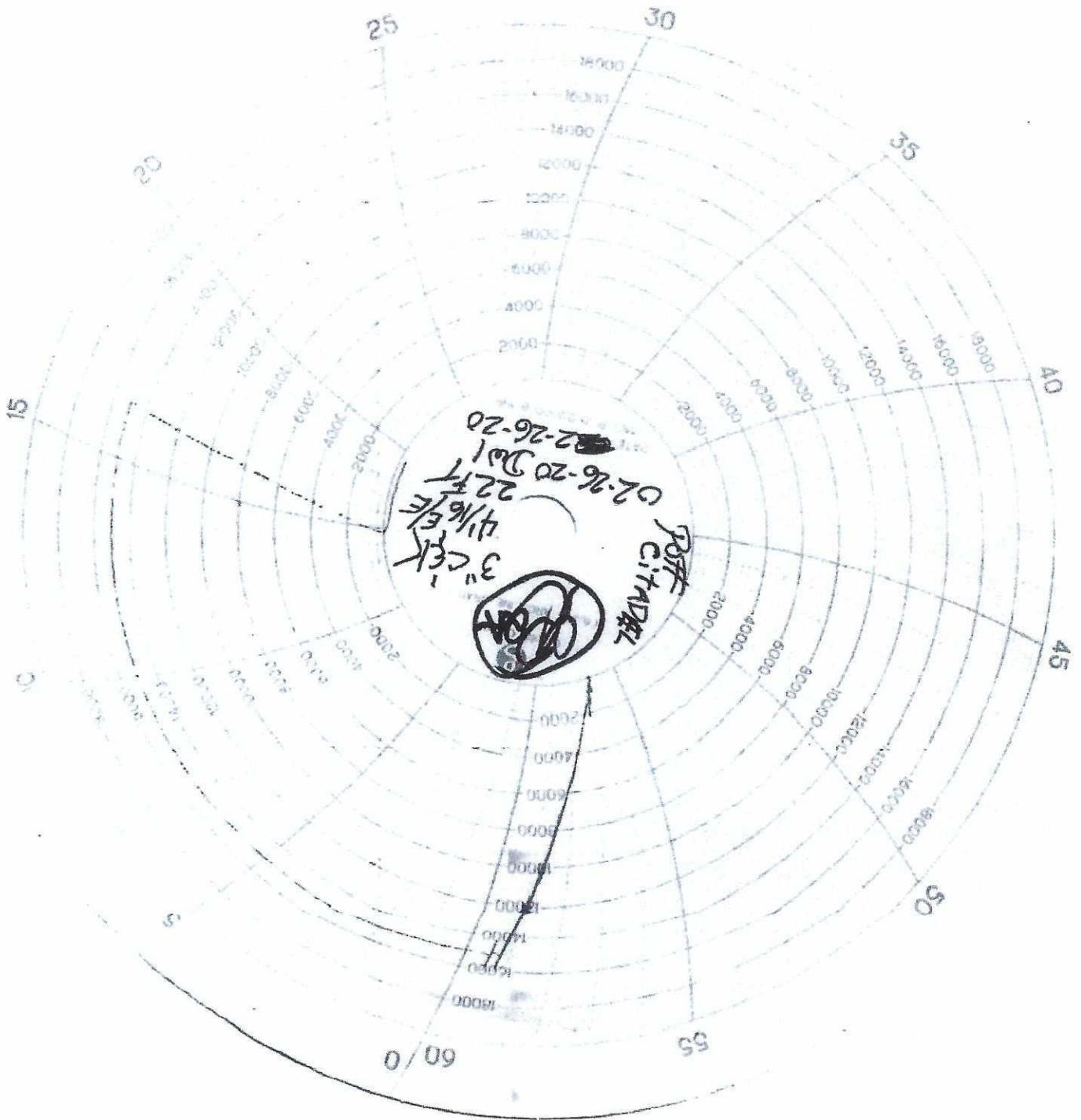
Certificate Issue Date: 2/27/2020

I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Purchase Order Information				Customer Name:	
Customer Part Number:	OA-5640-4822-4-1/16FXFL-ALE	Part Description:	3" 10,000 PSI WP CHOKE HOSE 4-1/16" FIXED BY FLOAT FLANGES C/W SS ARMOR & LIFTING EYES	CITADEL DRILLING	Customer Contact: PAUL HOFFMAN 432-241-5360
QTY Ordered:	1	Assembly Date:	02/26/2020		
DW Industries Part Number:	OA-5640-4822-4-1/16FXFL-ALE	Serial Number:	022620DW-1		
Customer Purchase Order Number:	CONTACT PAUL HOFFMAN FOR INFO	DW Industries Work Order Number:	20020164		

DW INDUSTRIES INC.
6287 LONG DRIVE
Houston, TX 77067
Tel. 713 644-8372 Fax 713-644-4947

COPY
Certificate of Conformance



COPY

Quality Assurance,
DW Industries, Inc.

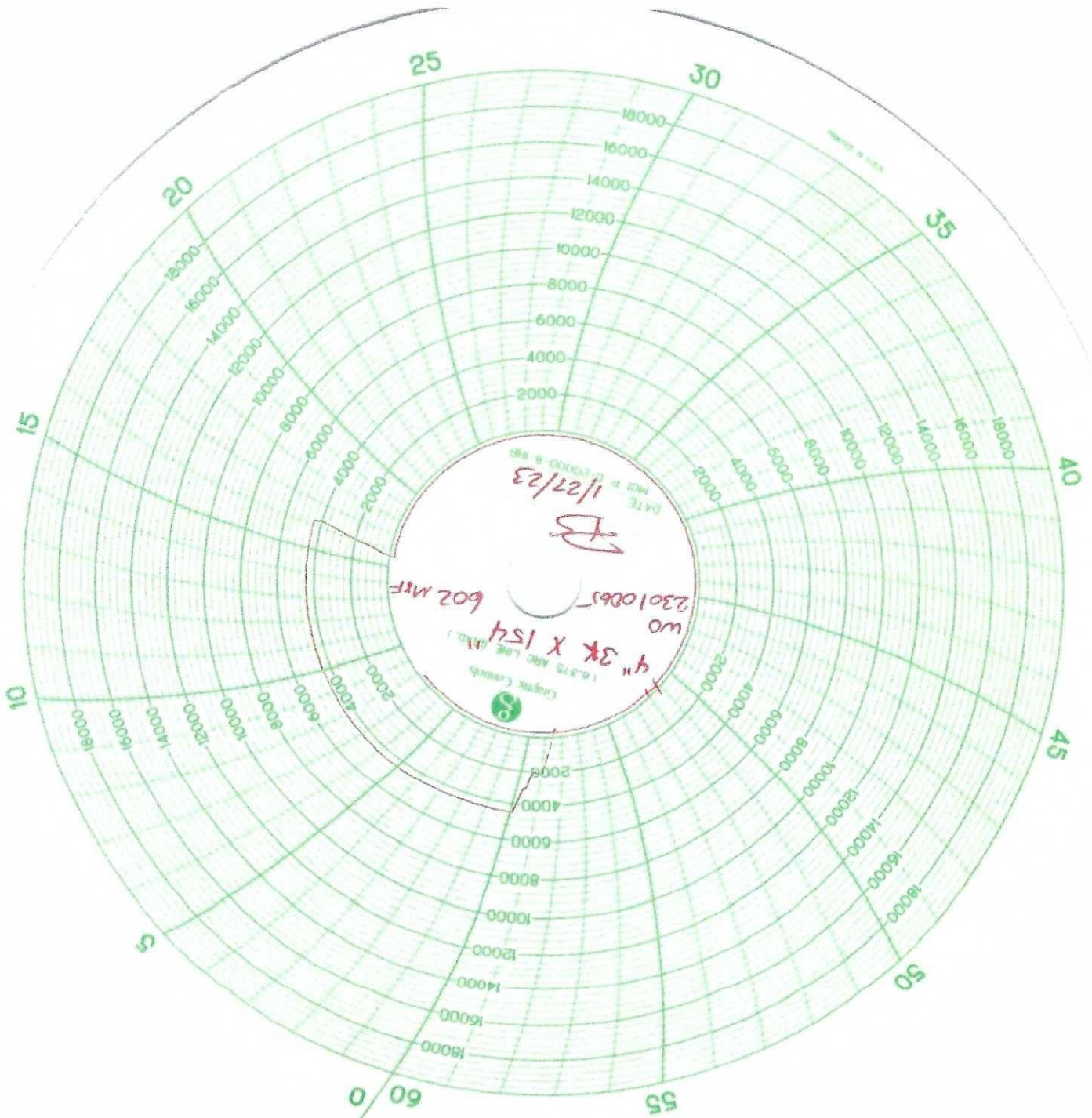
Certificate Issue Date: 1/27/2023

I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Purchase Order Information				Customer Name:	
Customer Part Number:				ASUTIN HOSE	Customer Contact:
QTY Ordered:	1			JUDY LOERA	
DW Industries Part Number:	OA-PS5038-64154"-602			DW Industries Work Order Number:	23010065
Customer Purchase Order Number:	00704977			Serial Number:	23010065
Part Description:	4"X154" 3K W/4" FIG 602 MXF			Assembly Date:	1/27/2023

DW INDUSTRIES INC.
6287 Long Drive
Houston, TX 77087
Tel. 713 644-8372 Fax 713-644-4947

Certificate of Performance



IN SERVICE
12-20-21

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr. Suite 190
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/ollandgas

PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	10/15/2021
Customer Ref.:	00595477	Hose Serial No.:	H3-101521-2
Invoice No.:	521925	Created By:	Micky Mhina

Product Description: 3" X 35' GATES FIRE RATED CHOKE & KILL HOSE ASSEMBLY SUITED FOR H2S SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES

End Fitting 1:	4 1/16 10K FIXED FLANGE	End Fitting 2:	4 1/16 10K FLOAT HEAT TREATED FLANGES
Oracle Star No.:	68703010-10074881	Assembly Code:	L41975 091719
CUSTOMER P/N:	10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE	Test Pressure:	15,000 PSI.
		Working Pressure:	10,000 PSI.

Gates Engineering & Services North America certifies that:

The following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies) or GTS-04-048 (15K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment and instrumentation that has been calibrated in accordance with the requirements set-forth in the GESNA management system.

Quality:	QUALITY
Date :	10/15/2021
Signature :	<i>Micky Mhina</i>

F-PRD-005B

Production:	PRODUCTION
Date :	10/15/2021
Signature :	<i>[Signature]</i>

Revision 6_05032021

**BLACK GOLD®**

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/ollandgas

CERTIFICATE OF CONFORMANCE

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

CUSTOMER: A-7 AUSTIN INC DBA AUSTIN HOSE
CUSTOMER P.O.#: 00595477
CUSTOMER P./N.#: 10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE
PART DESCRIPTION: 3" X 35' GATES FIRE RATED CHOKE & KILL HOSE ASSEMBLY SUITED FOR H2S
SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH
STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES
SALES ORDER #: 521925
QUANTITY: 1
SERIAL #: H3-101521-2

SIGNATURE: _____

A handwritten signature in dark ink, appearing to read "M. Lopez" or similar, written over a horizontal line.

TITLE: _____

QUALITY ASSURANCE

DATE: _____

10/15/2021



H3-6963

10/15/2021 10:15:57 AM

TEST REPORT

CUSTOMER

Company: Austin Distributing

Production description:

Sales order #: 521925

Customer reference:

TEST OBJECT

Serial number: H3-101521-2

Lot number: L41975091719

Description:

Hose ID: 3" 10k ck

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

Fitting 1: 3.0 x 4-1/16 10K

Part number:

Description:

Fitting 2: 3.0 x 4-1/16 10K

Part number:

Description:

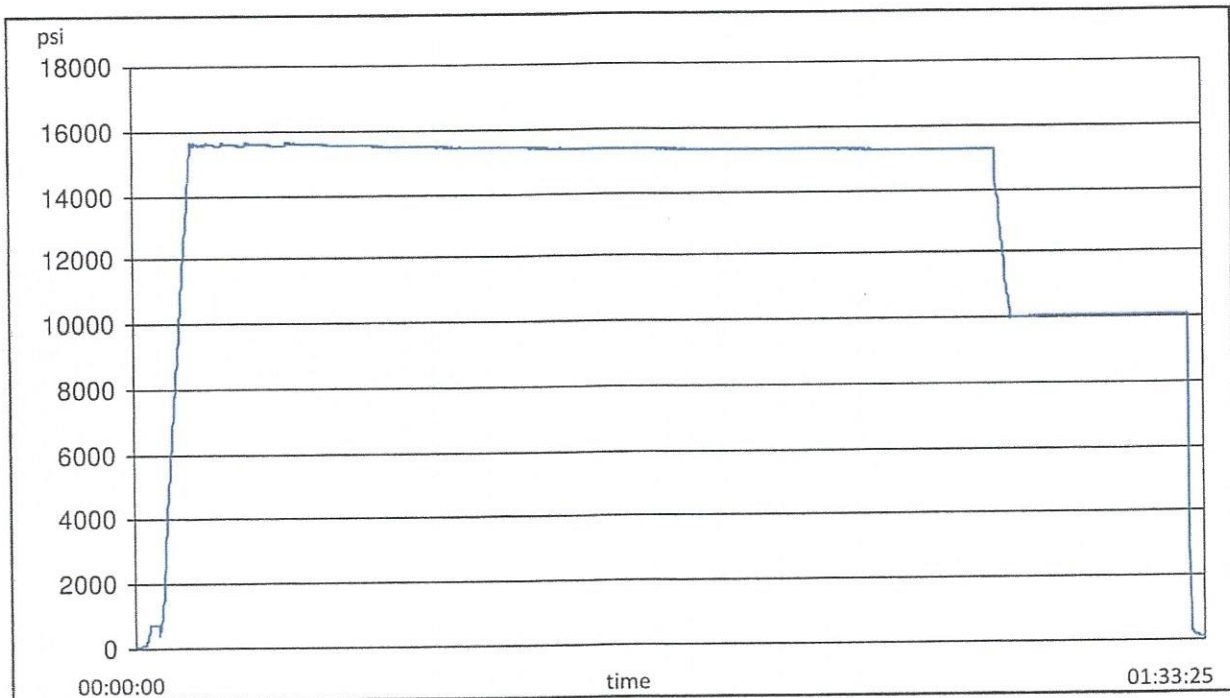
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 35 feet

Test operator: francisco





10/15/2021 10:15:57 AM

TEST REPORT

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AQA1S	2021-02-24	2022-02-24
S-25-A-W	110D3PHQ	2021-03-11	2022-03-11

Comment

--

Hydrostatic Test Certificate

ContiTech

Certificate Number H100163		COM Order Reference 1429702		Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA	
Customer Purchase Order No: 740382384					
Project:					
Test Center Address ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA		Accepted by COM Inspection Signed: Gerson Mejia-Lazo Date: 07/14/22		Accepted by Client Inspection	

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

Item	Part No.	Description	Qty	Serial Number	Work. Press. (psi)	Test Press. (psi)	Test Time (minutes)
------	----------	-------------	-----	---------------	--------------------	-------------------	---------------------

50 RECERTIFICATION

3" ID 10K Choke and Kill Hose x 35ft OAL

1

70025

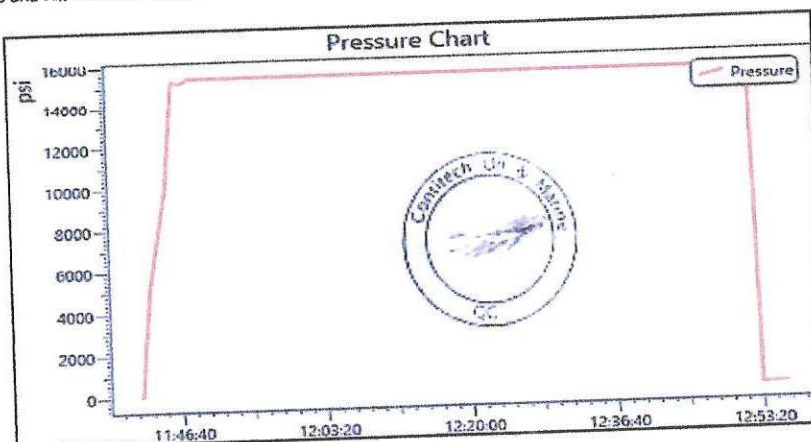
10,000

15,000

60

Record Information	
Start Time	6/14/2022 11:42:08
End Time	6/14/2022 12:56:14
Interval	00:01:00
Number	75
MaxValue	15888
MinValue	-8
AvgValue	14184
RecordName	70025-sh
RecordNumber	237


Gauge Information	
Model	ADT680
SN	21817380014
Range	(0-40000)psi
Unit	psi





Certificate of Conformity

ContiTech

Certificate Number H100163	COM Order Reference 1429702	Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA	
Customer Purchase Order No: 740382384			
Project:			
Test Center Address ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Accepted by COM Inspection Signed: Gerson Mejia-Lazo Date: 07/14/22 	Accepted by Client Inspection	

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

Item	Part No.	Description	Qty	Serial Number	Specifications
50	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70025	ContiTech Standard

ARMORED CHOKE HOSE

Installed

4-29-22


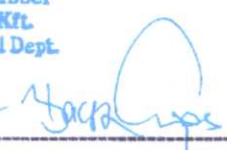


ContiTech

 CONTITECH RUBBER
Industrial Kft.

No: QC-DB- 120 / 2019

Page: 16 / 91

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 75819	
PURCHASER: ContiTech Oil & Marine Corp.				P.O. N°: 4501225327	
CONTITECH RUBBER order N°: 1127442		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 75819		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,68 m			
W.P. 69,0 MPa 10000 psi		T.P. 103,5 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature See attachment (1 page)					
COUPLINGS Type	Serial N°	Quality	Heat N°		
3" coupling with 4 1/16" 10K API Swivel Flange end Hub	6026	AISI 4130	A0607J		
		AISI 4130	040841		
		AISI 4130	54194		
3" coupling with 4 1/16" 10K API b.w. Flange end	6016	AISI 4130	A0607J		
		AISI 4130	040431		
Not Designed For Well Testing API Spec 16 C 2nd Edition– FSL2 Temperature rate: "B"					
All metal parts are flawless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.					
COUNTRY OF ORIGIN HUNGARY/EU					
Date:	Inspector	Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept. (1)			
08. April 2019.		 			



Hose Assembly Evaluation Sheet

Prepared by	Cristian Rivera	Date:	8/27/2022	QIN:	N/A
Customer:	HELMERICH & PAYNE, INC	Location:	H&P INT'L DRILLING CO 210 MAGNOLIA DR GALENA PARK, TX, 77547-2738		
User contact:	MITCH MCKINNIS	Phone:		e-mail:	mitch.mckinnis@hpinc.com
	Parameters	Hose Details			Test Status
Application Information	PO	740398454 (88000240 SN:70035)			PASS
	Gates SO	525035			
	Serial #:	88000240 SN:70035			
	As Tested Serial:	H2-082722-1 RE-TEST			
	Hose ID:	3 IN			
	Hose type:	INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END			
	Working pressure:	10000 PSI.			

1. Visual Examination

An API 16C, IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END received from HELMERICH & PAYNE, INC for inspection, testing and external cosmetic repairs. The hydrostatic pressure testing was requested to 15000 PSI., by the customer HELMERICH & PAYNE, INC

Visual inspection and examination of external hose assembly showed some cosmetic dents and repairable damages to the external armor at distance 32ft 9in. from EF2. (Need to fix a part of the hose.)

Both external & internal hose body and couplings of the hose were examined. Visual Inspection photos are in Table 2, while post inspection/testing pictures are in Table 4.

The hose was hydrostatically tested at 15000 PSI. test pressure with an hour-long hold. On completion of hydrostatic testing, an internal baroscopic examination was carried out, to check the condition of internal hose areas, mainly hose tube and coupling hose interface.

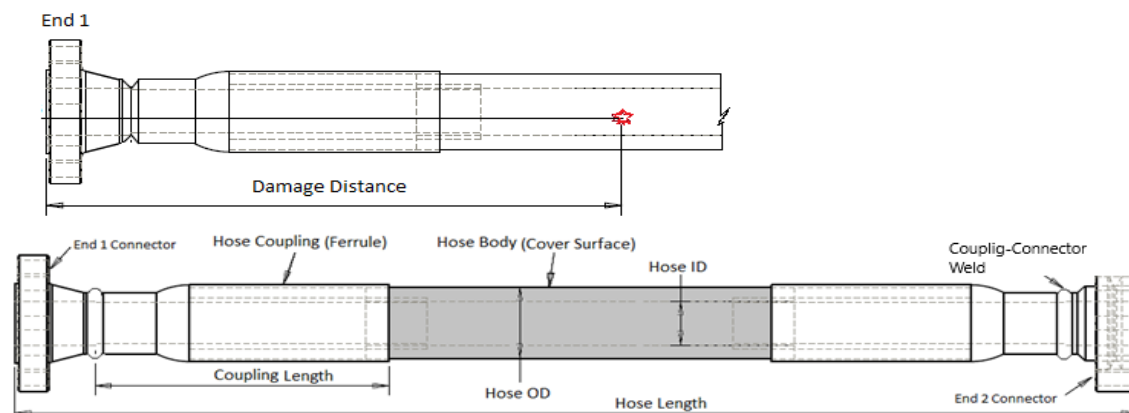




Figure 1: Generic Hose Assembly





Hose Assembly Evaluation Sheet

1.0 Observations and comments

	Comments
1	<div></div> <p>Photos: ID.</p>
2	<div></div> <p>Photo: Damaged armor areas</p>



Hose Assembly Evaluation Sheet

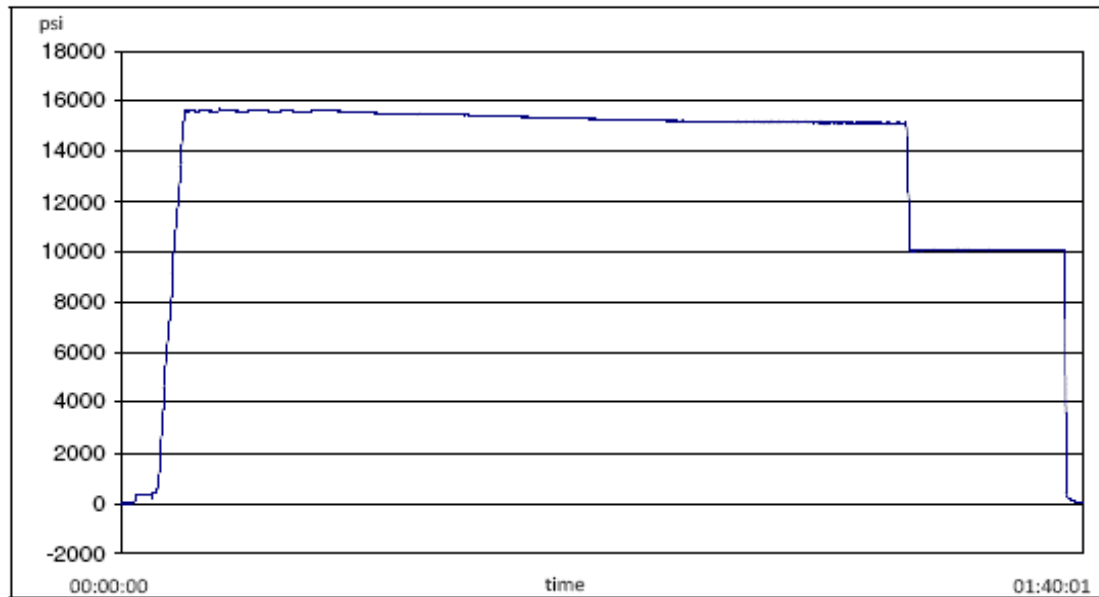
3	<div data-bbox="326 195 1252 871"></div> <p data-bbox="688 942 886 972">Photos: At Shipping.</p>
4	<div data-bbox="319 1003 1291 1715"></div> <p data-bbox="639 1749 935 1778">Photos: Armor and Engraving.</p>



Hose Assembly Evaluation Sheet

5	
Photo: In the Crate	

2. Hydro Static Pressure test



2.1 Hydrostatic Pressure test Procedures

	Hose Type	Test Specification	Test Date	Technician
1	IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16	3 10K C&K	2022-08-27	Martin Orozco

2.2 Gates Hydrostatic Pressure tester

	Test Equipment	Serial No	Last Cal Date	Cal Due Date
1	S-25-A-W	110AMCLO	2022-01-10	2023-01-10
2	S-25-A-W	110BSEUZ	2022-03-09	2023-03-09



Hose Assembly Evaluation Sheet

2.3 Hydro Static Test Pressure results

	Details	Results	
1	Hydrostatic Test Results ⁽¹⁾	Pass	Fail
2	Failure Mode	None	
3	Hose Dispatched to the customer?	Yes	No

Note:

1. Hydrostatic Pressure report is given in Appendix 1

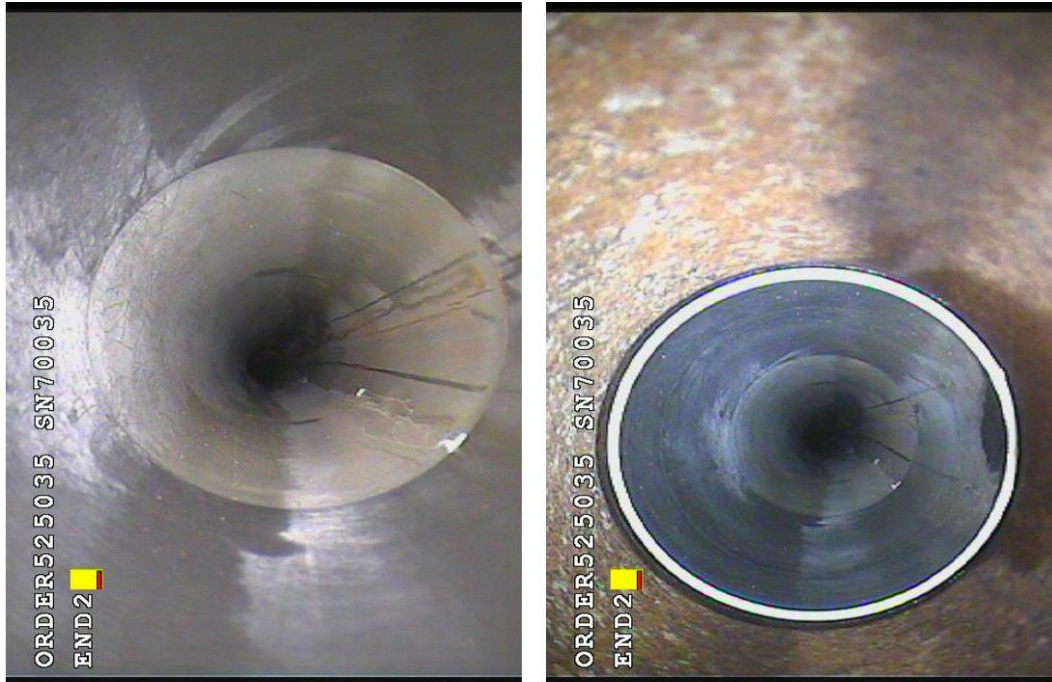
3. Hose borescope inspection

3.2 Internal Failure Details

	Type of Failure	Location of Defect	Ref. Photo	Defect Details
1	Liner breach/ collapse	None		None
2	Bulges/ Blisters	None		None
3	Other breach/failures	None		None



Photos: Liner/Coupling Interface END 1

**Hose Assembly Evaluation Sheet**

Photos: Liner/Coupling Interface END 2

Note

Borescope completed? Yes

4. Summary

Hose assembly successfully tested to requested test pressure of 15000 PSI. with an hour hold. It was then serialized and stamped, as H2-082722-1 RE-TEST. The bore scope showed no blisters or delamination in the internal lining/tube area. External damages were repaired as agreed with the customer.



Hose Assembly Evaluation Sheet

APPENDIX 1:
Pressure Chart



H2-8316

8/27/2022 8:51:22 AM

TEST REPORT

CUSTOMER

Company:

Production description:

Sales order #:

525035

Customer reference:

740398454 (88000240 |
SN:70035)

TEST INFORMATION

Test procedure:

3 10K C&K

Test pressure:

15000.00 psi

Test pressure hold:

3600.00 sec

Work pressure:

10000.00 psi

Work pressure hold:

900.00 sec

Length difference:

0.00 %

Length difference:

0.00 inch

TEST OBJECT

Serial number:

H2-082722-1

Lot number:

Description:

Hose ID:

3 10k C&K

Part number:

Fitting 1:

3.0 x 4-1/16 10K

Part number:

Description:

Fitting 2:

3.0 x 4-1/16 10K

Part number:

Description:

Visual check:

Pressure test result:

PASS

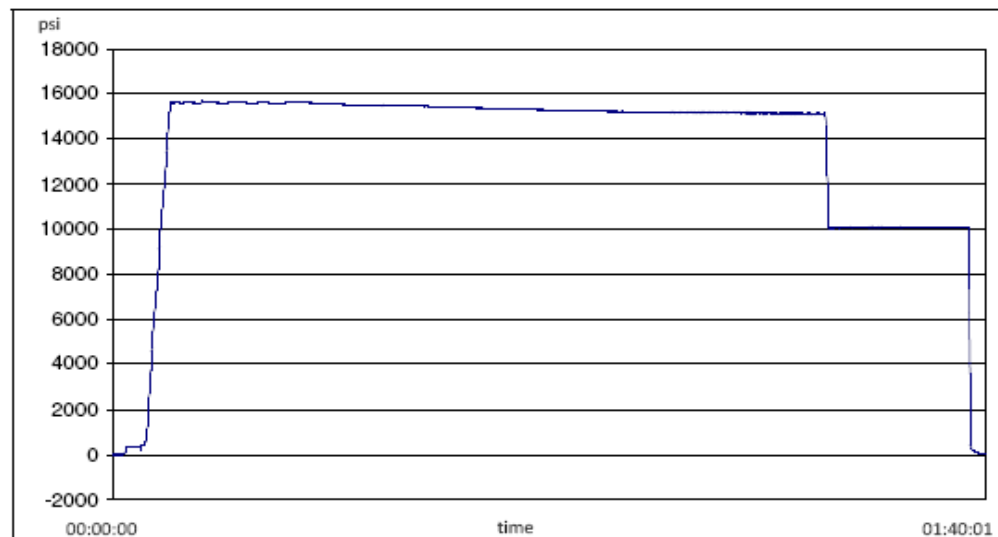
Length measurement result:

Length:

35 feet

Test operator:

Martin



Filename: D:\Certificates\Report_082722-H2-082722-1.pdf

Page 1/2



Hose Assembly Evaluation Sheet



H2-8316

8/27/2022 8:51:22 AM

TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCLO	2022-01-10	2023-01-10
S-25-A-W	110BSEUZ	2022-03-09	2023-03-09

Comment



Hose Assembly Evaluation Sheet

APPENDIX 2:
Certificate of Conformance

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

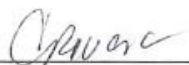
CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER: HELMERICH & PAYNE, INC
CUSTOMER P.O.#: 740398454 (88000240 | SN:70035)
CUSTOMER P/N: 88000240 | SN:70035

PART DESCRIPTION: INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16
FLANGES BX155 RING GROOVE EACH END

SALES ORDER #: 525035
QUANTITY: 1
SERIAL #: H2-082722-1 RE-TEST

SIGNATURE: 
TITLE: QUALITY ASSURANCE
DATE: 8/27/2022

OXY's Minimum Design Criteria

Burst, Collapse, and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software. A sundry will be requested if any lesser grade or different size casing is substituted.

1) Casing Design Assumptions

a) Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Pore pressure in open hole.

CSG Test (Intermediate)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

CSG Test (Production)

- Internal:
 - For Drilling: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
 - For Production: The design pressure test should be the greater of (1) the planned test pressure prior to stimulation down the casing. (2) the regulatory test pressure, and (3) the expected gas lift system pressure. The design test fluid should be the fluid associated with pressure test having the greatest pressure.
- External:
 - For Drilling: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.
 - For Production: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Column (Surface)

- Internal: Assumes a full column of gas in the casing with a Gas/Oil Gradient of 0.1 psi/ft in the absence of better information. It is limited to the controlling pressure based on the fracture pressure at the shoe or the maximum expected pore pressure within the next drilling interval, whichever results in a lower surface pressure.
- External: Fluid gradient below TOC, pore pressure from the TOC to the Intermediate CSG shoe (if applicable), and MW of the drilling mud that was in the hole when the CSG was run from Intermediate CSG shoe to surface.

Bullheading (Surface / Intermediate)

- Internal: The string must be designed to withstand a pressure profile based on the fracture pressure at the casing shoe with a column of water above the shoe plus an additional surface pressure (in psi) of $0.02 \times MD$ of the shoe to account for pumping friction pressure.
- External: Mud weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Kick (Intermediate)

- The string must be designed to at least a gas kick load case unless the rig is unable to detect a kick. For the gas kick load case, the internal pressure profile must be based on a minimum volume of 50 bbl or the minimum kick detection capability of the rig, whichever is greater, and a kick intensity of 2.0 ppg for Class 1, 1.0 ppg of Class 2, and 0.5 ppg for Class 3 and 4 wells.
- Internal: Influx depth of the maximum pore pressure of 0.55 "gas kick gravity" of gas to surface while drilling the next hole section.
- External: Mud weight to the TOC, cement mix water gradient below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Producing (Production)

- Internal: SITP plus a packer fluid gradient to the shoe or top of packer.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Stimulating (Production)

- Internal: Surface pressure or pressure-relief system pressure, whichever is lower plus packer fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Injection / Stimulation Down Casing (Production)

- Internal: Surface pressure plus injection fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

b) Collapse Loads**Lost Circulation (Surface / Intermediate)**

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- External: MW of the drilling mud that was in the hole when the casing was run.

Cementing (Surface / Intermediate / Production)

- Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

- Internal: Full void pipe.
- External: MW of drilling mud in the hole when the casing was run.

c) Tension Loads**Running Casing (Surface / Intermediate / Production)**

- Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

- Axial: Buoyant weight of the string plus cement plug bump pressure load.

OXY's Minimum Design Criteria

Burst, Collapse, and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software. A sundry will be requested if any lesser grade or different size casing is substituted.

1) Casing Design Assumptions

a) Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Pore pressure in open hole.

CSG Test (Intermediate)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

CSG Test (Production)

- Internal:
 - For Drilling: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
 - For Production: The design pressure test should be the greater of (1) the planned test pressure prior to stimulation down the casing. (2) the regulatory test pressure, and (3) the expected gas lift system pressure. The design test fluid should be the fluid associated with pressure test having the greatest pressure.
- External:
 - For Drilling: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.
 - For Production: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Column (Surface)

- Internal: Assumes a full column of gas in the casing with a Gas/Oil Gradient of 0.1 psi/ft in the absence of better information. It is limited to the controlling pressure based on the fracture pressure at the shoe or the maximum expected pore pressure within the next drilling interval, whichever results in a lower surface pressure.
- External: Fluid gradient below TOC, pore pressure from the TOC to the Intermediate CSG shoe (if applicable), and MW of the drilling mud that was in the hole when the CSG was run from Intermediate CSG shoe to surface.

Bullheading (Surface / Intermediate)

- Internal: The string must be designed to withstand a pressure profile based on the fracture pressure at the casing shoe with a column of water above the shoe plus an additional surface pressure (in psi) of $0.02 \times \text{MD of the shoe}$ to account for pumping friction pressure.
- External: Mud weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Kick (Intermediate)

- The string must be designed to at least a gas kick load case unless the rig is unable to detect a kick. For the gas kick load case, the internal pressure profile must be based on a minimum volume of 50 bbl or the minimum kick detection capability of the rig, whichever is greater, and a kick intensity of 2.0 ppg for Class 1, 1.0 ppg of Class 2, and 0.5 ppg for Class 3 and 4 wells.
- Internal: Influx depth of the maximum pore pressure of 0.55 “gas kick gravity” of gas to surface while drilling the next hole section.
- External: Mud weight to the TOC, cement mix water gradient below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Producing (Production)

- Internal: SITP plus a packer fluid gradient to the shoe or top of packer.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Stimulating (Production)

- Internal: Surface pressure or pressure-relief system pressure, whichever is lower plus packer fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Injection / Stimulation Down Casing (Production)

- Internal: Surface pressure plus injection fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

b) Collapse Loads**Lost Circulation (Surface / Intermediate)**

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- External: MW of the drilling mud that was in the hole when the casing was run.

Cementing (Surface / Intermediate / Production)

- Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

- Internal: Full void pipe.
- External: MW of drilling mud in the hole when the casing was run.

c) Tension Loads**Running Casing (Surface / Intermediate / Production)**

- Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

- Axial: Buoyant weight of the string plus cement plug bump pressure load.



CONNECTION DATA SHEET

OD: 5.500 in.

Grade: P110 RY

Weight: 20.00 lb/ft

Drift: 4.653 in. (API)

Wall Th.: 0.361 in.

VAM[®] SPRINT-SF



Semi-Flush

Field Torque Values

Make-up Torque (ft-lb)

20,000 MIN

22,500 OPTI

25,000 MAX

Torque with Sealability (ft-lb)

36,000 MTS

Locked Flank Torque (ft-lb)

4,500 MIN

15,750 MAX

(2) MTS: Maximum Torque with Sealability.

PIPE BODY PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	Controlled Yield	
Minimum Yield Strength	110	ksi
Maximum Yield Strength	125	ksi
Minimum Ultimate Tensile Strength	140	ksi
Pipe Body Yield Strength	641	klb
Internal Yield Pressure	12,640	psi
Collapse Pressure	11,110	psi

CONNECTION PROPERTIES

Connection Type	Semi-Premium Integral	
Nominal Connection OD	5.783	in.
Nominal Connection ID	4.718	in.
Make-up Loss	5.965	in.
Tension Efficiency	90	% Pipe Body
Compression Efficiency	90	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,110	psi
Maximum Bending, Structural	78	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

(1) Sealability rating demonstrated as per API RP 5C5 / ISO 13679



BOOST YOUR EFFICIENCY, REDUCE COSTS
AND ENSURE 100% WELL INTEGRITY WITH
VAM[®] FIELD SERVICE

Scan the QR code
to contact us



OXY's Minimum Design Criteria

Burst, Collapse, and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software. A sundry will be requested if any lesser grade or different size casing is substituted.

1) Casing Design Assumptions

a) Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Pore pressure in open hole.

CSG Test (Intermediate)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

CSG Test (Production)

- Internal:
 - For Drilling: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
 - For Production: The design pressure test should be the greater of (1) the planned test pressure prior to stimulation down the casing. (2) the regulatory test pressure, and (3) the expected gas lift system pressure. The design test fluid should be the fluid associated with pressure test having the greatest pressure.
- External:
 - For Drilling: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.
 - For Production: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Column (Surface)

- Internal: Assumes a full column of gas in the casing with a Gas/Oil Gradient of 0.1 psi/ft in the absence of better information. It is limited to the controlling pressure based on the fracture pressure at the shoe or the maximum expected pore pressure within the next drilling interval, whichever results in a lower surface pressure.
- External: Fluid gradient below TOC, pore pressure from the TOC to the Intermediate CSG shoe (if applicable), and MW of the drilling mud that was in the hole when the CSG was run from Intermediate CSG shoe to surface.

Bullheading (Surface / Intermediate)

- Internal: The string must be designed to withstand a pressure profile based on the fracture pressure at the casing shoe with a column of water above the shoe plus an additional surface pressure (in psi) of $0.02 \times MD$ of the shoe to account for pumping friction pressure.
- External: Mud weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Kick (Intermediate)

- The string must be designed to at least a gas kick load case unless the rig is unable to detect a kick. For the gas kick load case, the internal pressure profile must be based on a minimum volume of 50 bbl or the minimum kick detection capability of the rig, whichever is greater, and a kick intensity of 2.0 ppg for Class 1, 1.0 ppg of Class 2, and 0.5 ppg for Class 3 and 4 wells.
- Internal: Influx depth of the maximum pore pressure of 0.55 "gas kick gravity" of gas to surface while drilling the next hole section.
- External: Mud weight to the TOC, cement mix water gradient below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Producing (Production)

- Internal: SITP plus a packer fluid gradient to the shoe or top of packer.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Stimulating (Production)

- Internal: Surface pressure or pressure-relief system pressure, whichever is lower plus packer fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Injection / Stimulation Down Casing (Production)

- Internal: Surface pressure plus injection fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

b) Collapse Loads**Lost Circulation (Surface / Intermediate)**

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- External: MW of the drilling mud that was in the hole when the casing was run.

Cementing (Surface / Intermediate / Production)

- Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

- Internal: Full void pipe.
- External: MW of drilling mud in the hole when the casing was run.

c) Tension Loads**Running Casing (Surface / Intermediate / Production)**

- Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

- Axial: Buoyant weight of the string plus cement plug bump pressure load.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 398128

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	398128
Action Type:	
[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
melissaguidry	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/1/2024
melissaguidry	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/1/2024
pkautz	File As Drilled C-102 and a directional Survey with C-104 completion packet.	11/3/2024
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	11/3/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	11/3/2024